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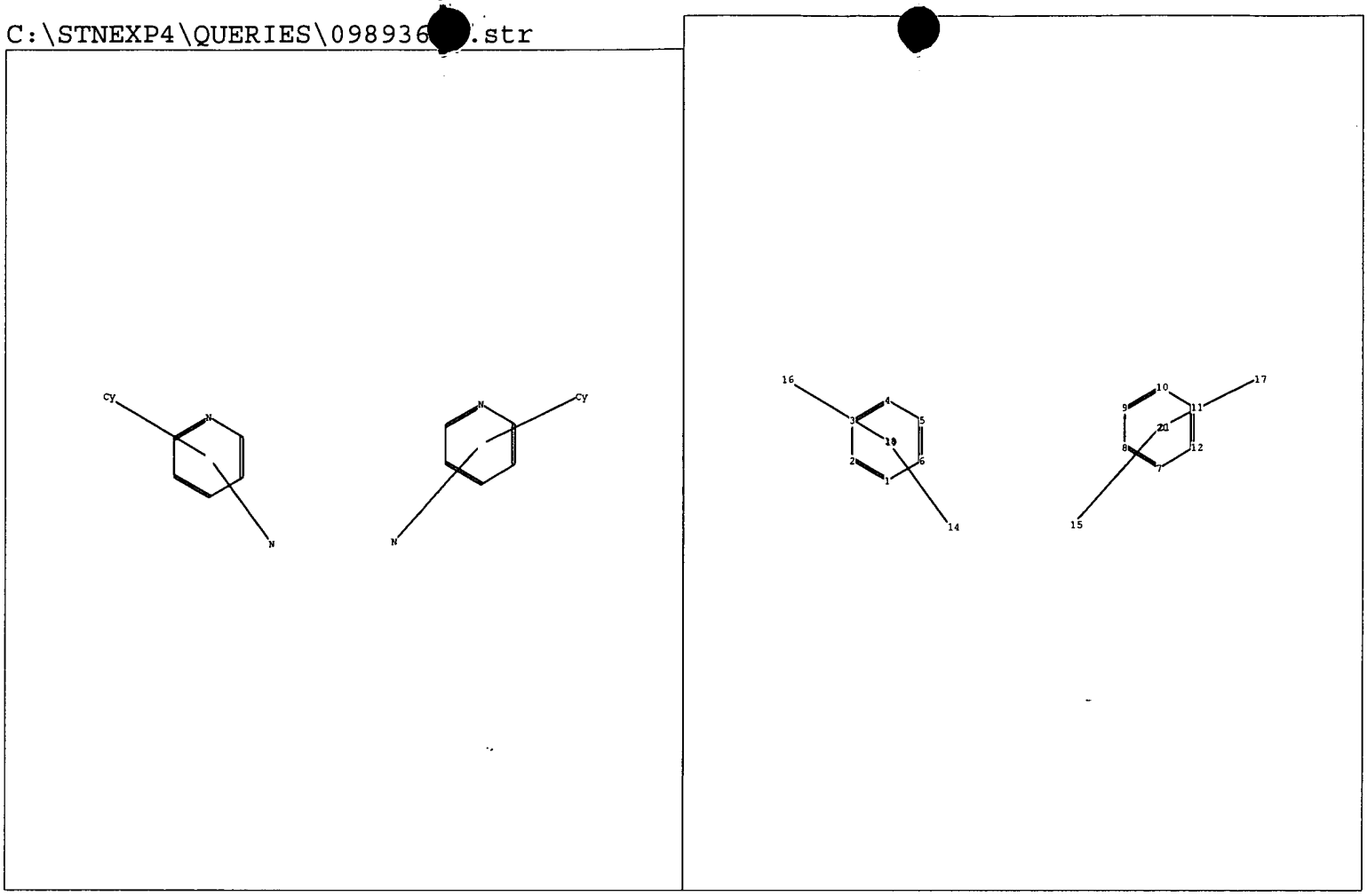
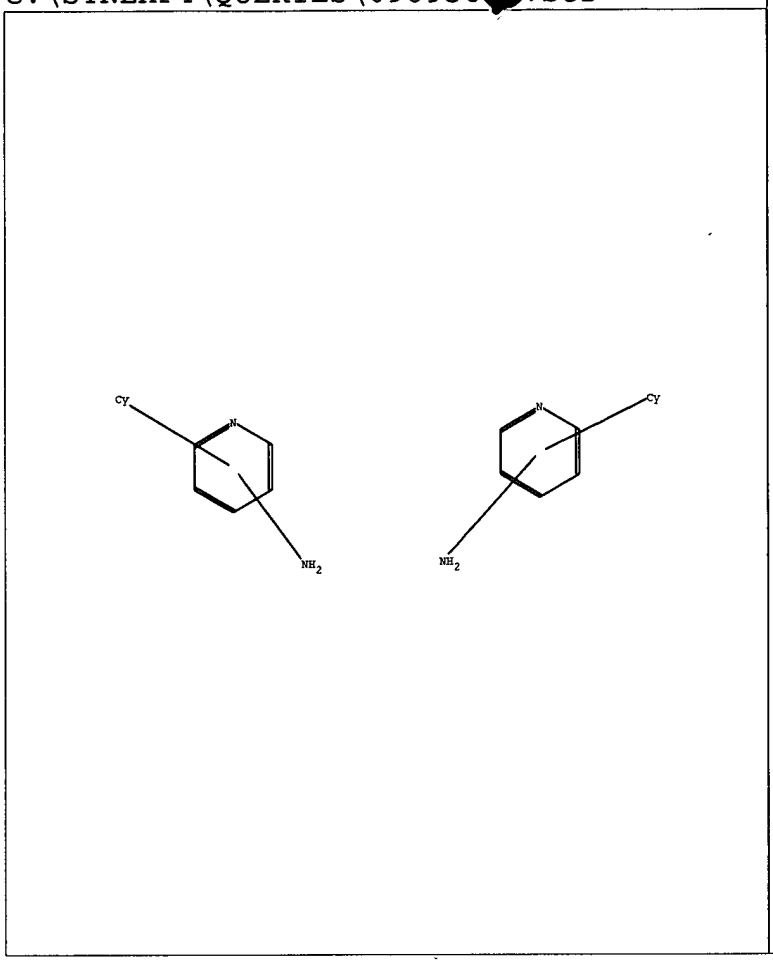


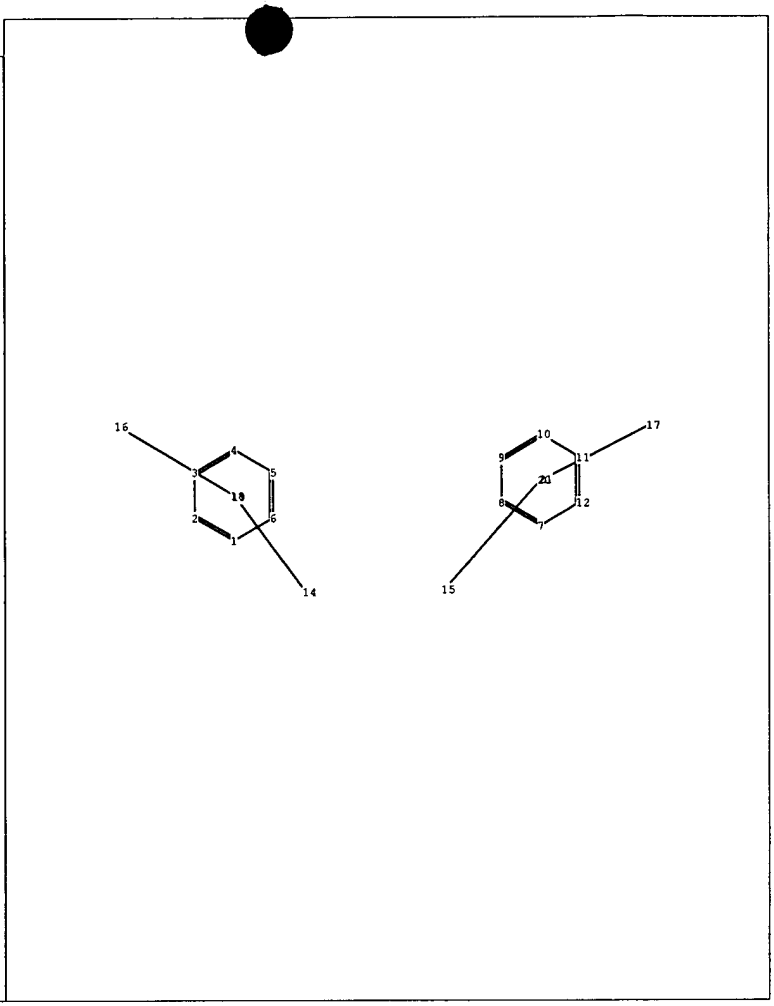
chain nodes :
16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
ring/chain nodes :
14 15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :

G1:C,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:CLASS
19:CLASS 20:CLASS 21:CLASS

C:\STNEXP4\QUERIES\098936[redacted].str





chain nodes :
16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
ring/chain nodes :
14 15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :

G1:C,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:CLASS
19:CLASS 20:CLASS 21:CLASS

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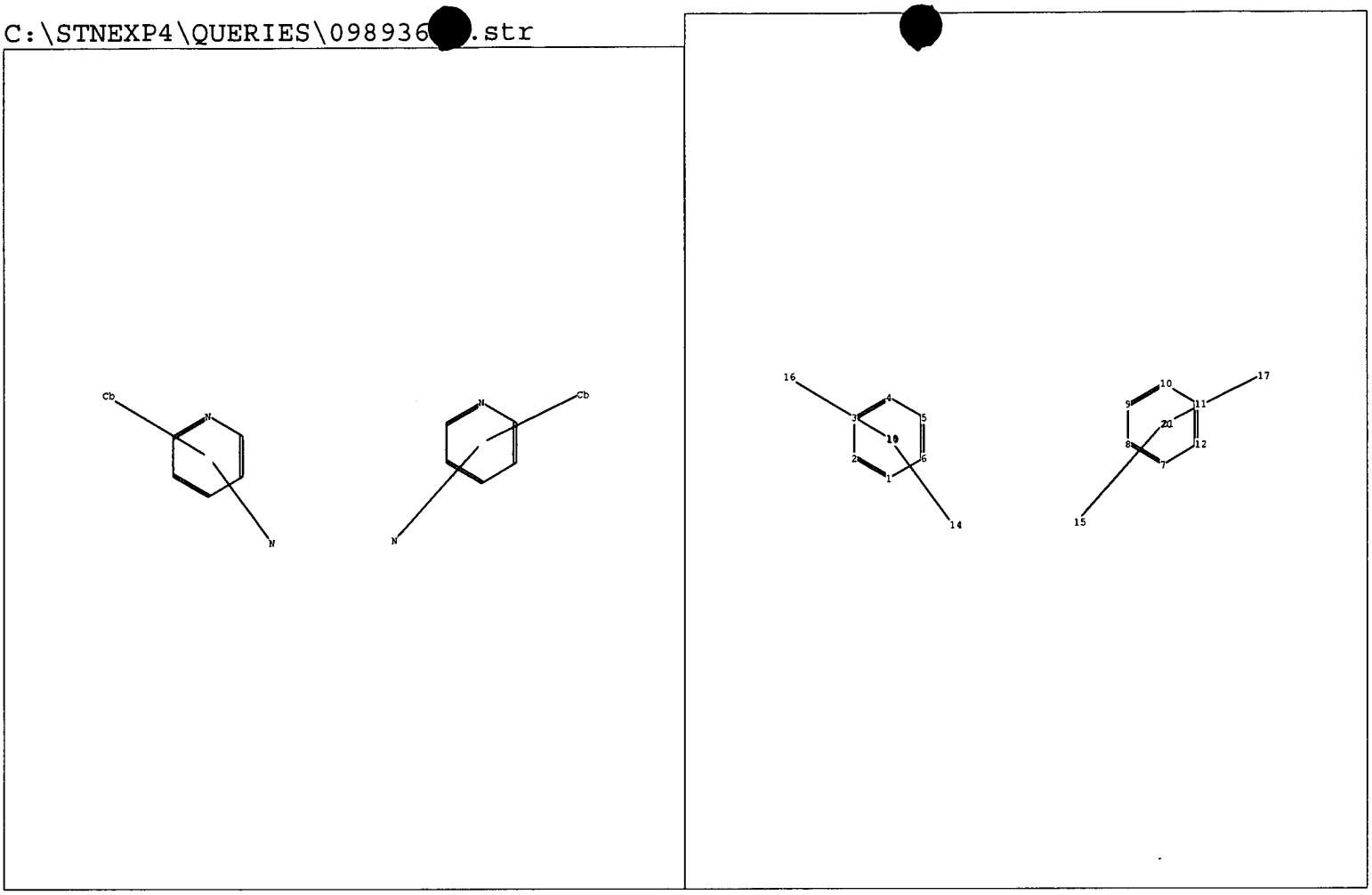


```
chain nodes :
    16  17
ring nodes :
    1  2  3  4  5  6  7  8  9  10  11  12
ring/chain nodes :
    14  15
ring bonds :
    1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10  10-11  11-12
normalized bonds :
    1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10  10-11  11-12
isolated ring systems :
    containing 1 : 7 :


G1:C,N

Match level :
    1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom
    10:Atom  11:Atom  12:Atom  14:CLASS  15:CLASS  16:Atom  17:Atom  18:CLASS
    19:CLASS  20:CLASS  21:CLASS
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=> d his

     (FILE 'HOME' ENTERED AT 12:09:57 ON 11 SEP 2002)

     FILE 'REGISTRY' ENTERED AT 12:10:03 ON 11 SEP 2002
L1                STRUCTURE UPLOADED
L2                QUE L1
L3              0 S L2
L4            373 S L2 SSS FUL

     FILE 'CAPLUS' ENTERED AT 12:11:24 ON 11 SEP 2002
L5            102 S L4
                  DEL A08952817/A
                  DEL A09113905/A
                  DEL A09446736/L
                  DEL B09113905/A

     FILE 'REGISTRY' ENTERED AT 12:13:27 ON 11 SEP 2002
L6                STRUCTURE UPLOADED
L7                QUE L6
L8             53 S L7  SUB=L4 FUL
L9            320 S L4 NOT L8

     FILE 'CAPLUS' ENTERED AT 12:20:39 ON 11 SEP 2002
L10            85 S L9
L11            33 S L10 AND PATENT/DT
L12            52 S L10 NOT L11
L13             2 S L12 AND 2002/SO

     FILE 'REGISTRY' ENTERED AT 12:22:57 ON 11 SEP 2002
L14               STRUCTURE UPLOADED
L15               QUE L14
L16             3 S L15  SUB=L9 SAM
L17            84 S L15  SUB=L9 FUL
L18           236 S L9 NOT L17

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L19            21 S L17

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L2 HAS NO ANSWERS
L1                STR
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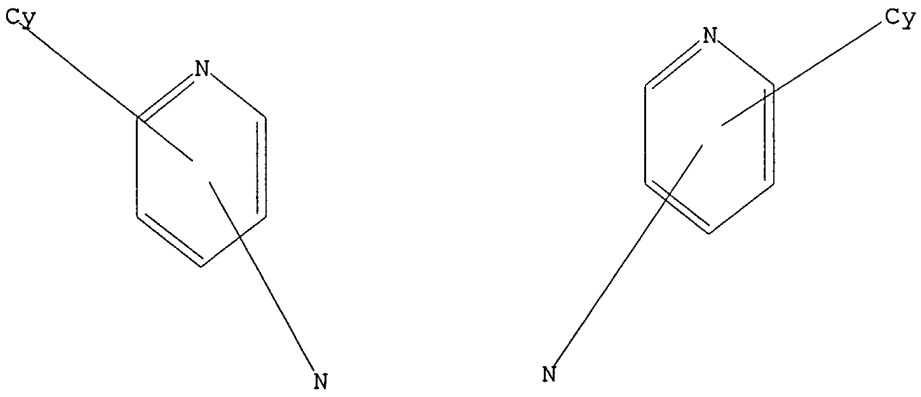
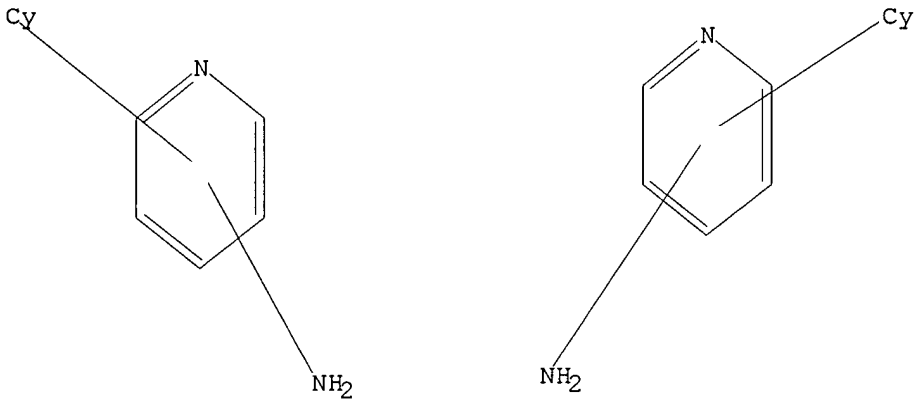


G1 C,N

Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

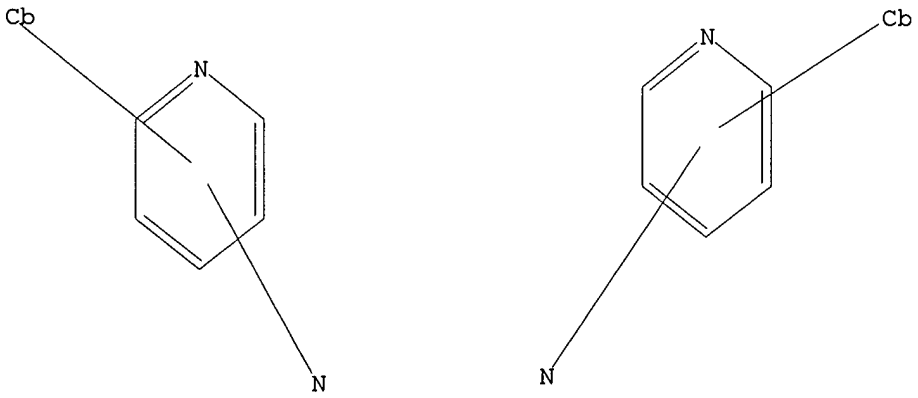
=> d l7
L7 HAS NO ANSWERS
L6 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.
L7 QUE ABB=ON PLU=ON L6

=> d l15
L15 HAS NO ANSWERS
L14 STR

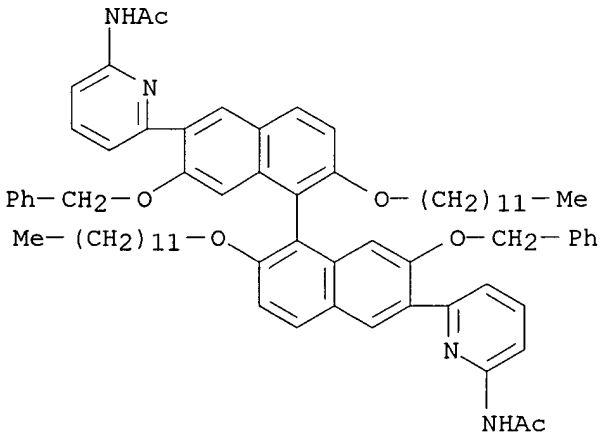


G1 C,N

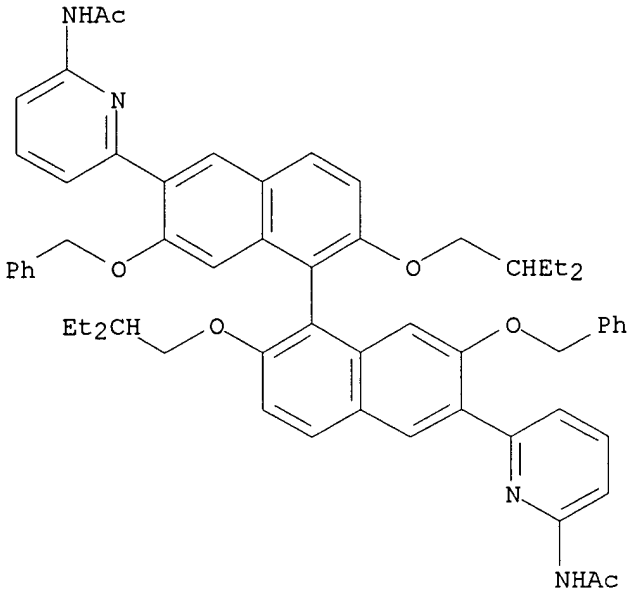
Structure attributes must be viewed using STN Express query preparation.
L15 QUE ABB=ON PLU=ON L14

=> d bib abs hitstr l19 1-21

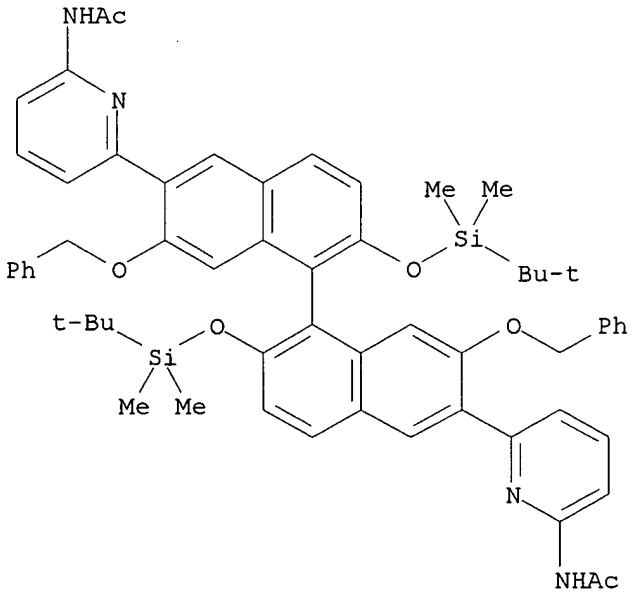
L19 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 2000:543469 CAPLUS
DN 133:266471
TI Conformational Analysis in Solution of C2-Symmetric 1,1'-Binaphthyl Derivatives by Circular Dichroism Spectroscopy and Cholesteric Induction in Nematic Mesophases
AU Proni, Gloria; Spada, Gian Piero; Lustenberger, Philipp; Welti, Roger; Diederich, Francois
CS Dipartimento di Chimica Organica A. Mangini, Universita di Bologna, Bologna, I-40127, Italy
SO Journal of Organic Chemistry (2000), 65(18), 5522-5527
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB The twisting ability of a series of 1,1'-binaphthalene compds. used as dopants in nematic solvents has been related to the dihedral angle .theta. between the two naphthalene moieties. While in the case of the more flexible compds. the sign and value of the helical twisting power is affected by several structural features that prevent a simple assignment of the conformation, in the presence of a covalent bridge that restricts the rotation around the C(1)-C(1') bond a reliable est. of the conformational helicity could be obtained. This technique is complementary to CD spectroscopy that, for the investigated mols., presents the same exciton patterns irresp. of the actual .theta. value.
IT **171976-27-5 205940-00-7 205940-01-8 205940-05-2 205940-06-3**
RL: PRP (Properties)
(conformational anal. in soln. of C2-sym. binaphthyl derivs. by CD spectroscopy and cholesteric induction in nematic mesophases)
RN 171976-27-5 CAPLUS
CN Acetamide, N,N'-[[(1R)-2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



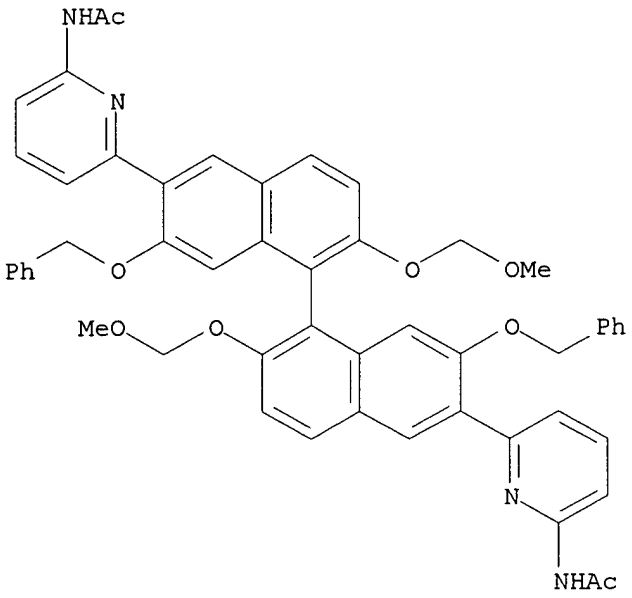
RN 205940-00-7 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(2-ethylbutoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



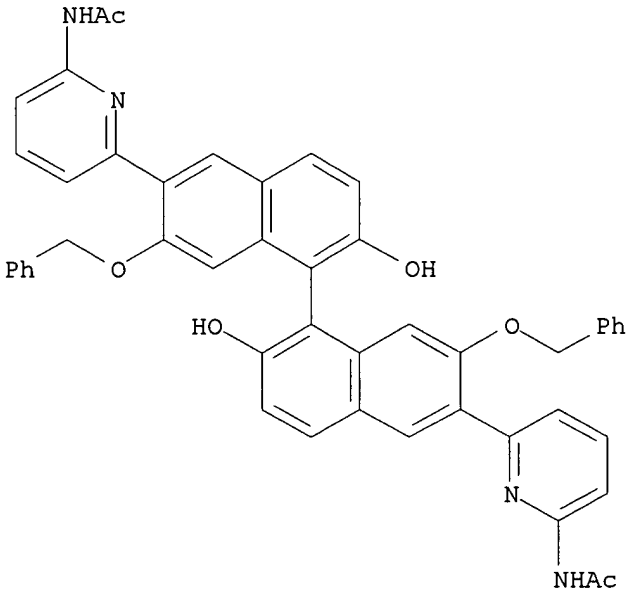
RN 205940-01-8 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



RN 205940-05-2 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(methoxymethoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



RN 205940-06-3 CAPLUS
CN Acetamide, N,N'-[[2,2'-dihydroxy-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)

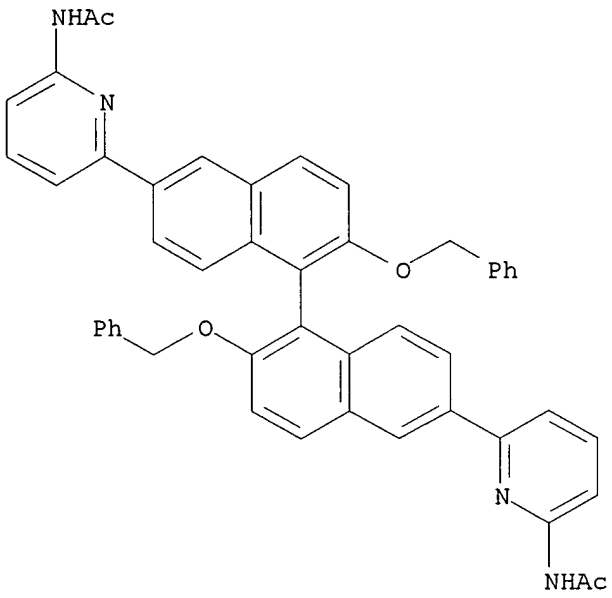


RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 2000:125442 CAPLUS
DN 132:264946
TI Cleft-type diamidinium receptors for dicarboxylate binding in protic solvents
AU Sebo, Lubomir; Schweizer, Bernd; Diederich, Francois
CS Laboratorium fur Organische Chemie der Eidgenossischen Technischen Hochschule, Laboratorium fur Organische Chemie der Eidgenossischen Technischen Hochschule, ETH-Zentrum, Zurich, CH-8092, Switz.
SO Helvetica Chimica Acta (2000), 83(1), 80-92
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
AB A series of potential cleft-type receptors for dicarboxylate substrates were prepd. by attachment of two phenylamidinium ions to either naphthalene or 1,1'-binaphthalene scaffolds. Their synthesis involved the Pd0-catalyzed cross-coupling of aryl nitriles to the central scaffold, followed by transformation of the nitrile into amidinium groups using the Garigipati reaction. The 1,1'-binaphthalene deriv. with phenylamidinium residues attached to the 6,6'-positions(I) in the major groove is a highly efficient receptor for dicarboxylate guests, such as glutarate and isophthalates, even in competing protic solvents such as CD3OD. The van't Hoff anal. of variable-temp. 1H-NMR (VT-NMR) titrns. and isothermal microcalorimetry revealed that complexation in MeOH is strongly entropically driven with an unfavorable enthalpic change, which partially compensates the entropic gain. These thermodn. quantities are best explained by a particularly favorable solvation of the binding partners in the unbound state and the release of the MeOH mols., which solvate the free ions into the bulk upon complexation. Receptor I binds flexible glutarate and rigid isophthalates with similar assocn. strength. This lack in response to guest preorganization and reduced guest selectivity is explained with the non-directionality of the coulombic charge-charge interactions in the complexes.
IT **147580-15-2P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of cleft-type diamidinium receptors for dicarboxylate binding)
RN 147580-15-2 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-(dodecyloxy)-, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

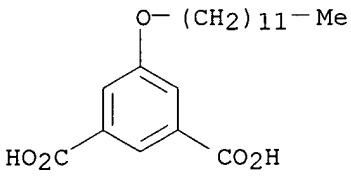
CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4



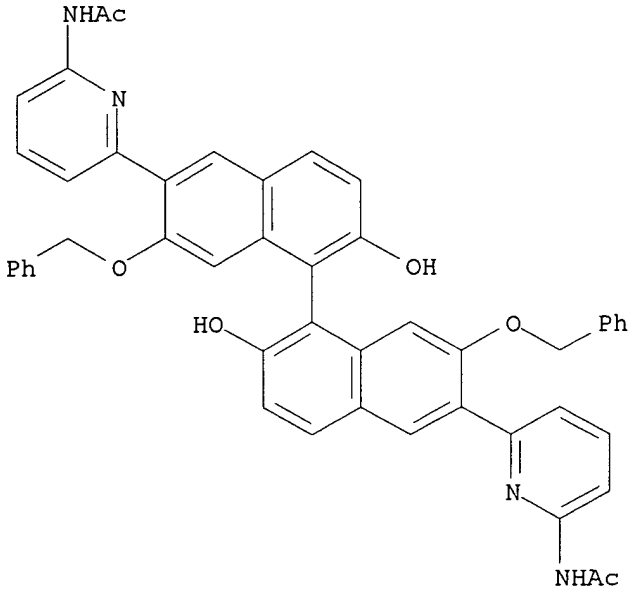
CM 2

CRN 147580-08-3
CMF C20 H30 O5

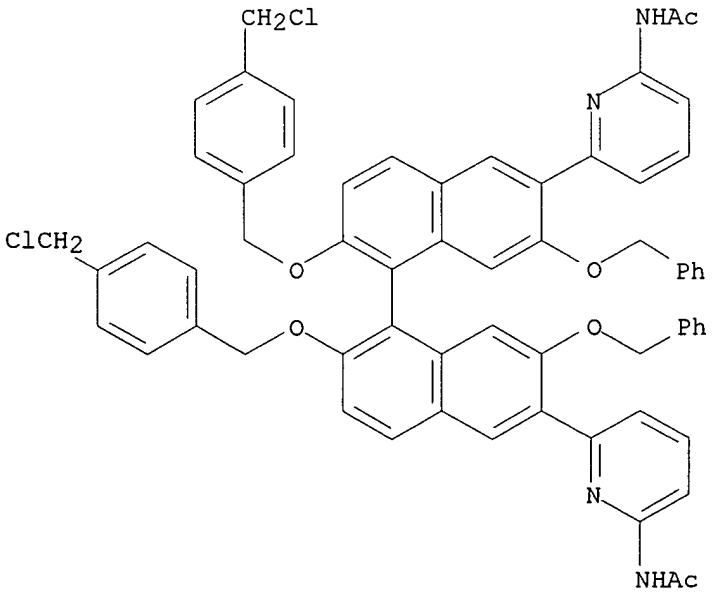


RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

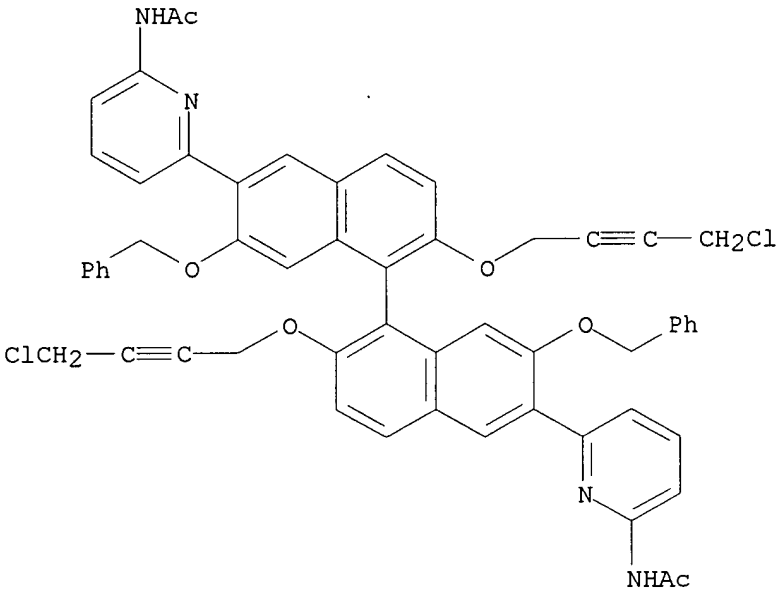
L19 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1999:49664 CAPLUS
DN 130:182446
TI Negative cooperativity in the molecular recognition of excitatory amino-acid derivatives by synthetic allosteric 1,1'-binaphthalene receptors
AU Lustenberger, Philipp; Welti, Roger; Diederich, Francois
CS Laboratorium Organische Chemie, Eidgenoessische Technische Hochschule Zurich, Zurich, CH-8092, Switz.
SO Helvetica Chimica Acta (1998), 81(12), 2190-2200
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta AG
DT Journal
LA English
AB Optically active allosteric receptors were synthesized for the mol. recognition of N-(benzyloxy)carbonyl (N-Cbz)-protected excitatory aspartic acid (Asp) and glutamic acid (Glu). These macrocyclic structures consist of 2 1,1'-binaphthalene moieties connected by 2 but-2-yne-1,4-diyl or 1,4-xylylene bridges between the O-atoms in the minor grooves. Each 1,1'-binaphthalene moiety contains 2 2-acetamidopyridin-6-yl [CONH(py)] H-bonding sites in the major groove to bind excitatory amino acids via 2 CO2H...CONH(py) H-bonding arrays and addnl. secondary electrostatic interactions. The formation of stable complexes with 1:2 host-guest stoichiometry was proven by the evaluation of fluorescence binding titrns. using a multiple-wavelength nonlinear least-squares curve-fitting procedure, Job plot anal., and solubilization expts. Complexation of the first excitatory amino-acid guest at binding site 1 reduces the affinity for the second guest at binding site 2. As measures for the neg. cooperativity between the 2 sides, the ratios of the assocn. consts. for the first and second binding events, {Ka(1:1)/Ka(1:2)}corr. (cor. for the statistical preference of the 1:1 complex formation), adopt values between 1.4 and 2.4, and the Hill coeffs. nH varied between 0.49 and 0.59.
IT **205940-06-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of butynediyl- and xylylene-bridged allosteric binaphthalene receptors)
RN 205940-06-3 CAPLUS
CN Acetamide, N,N'-[[2,2'-dihydroxy-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



IT **220580-47-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of butynediyl- and xylylene-bridged allosteric binaphthalene receptors)
RN 220580-47-2 CAPLUS
CN Acetamide, N,N'-[[(1R)-2,2'-bis[[4-(chloromethyl)phenyl]methoxy]-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-(9CI) (CA INDEX NAME)

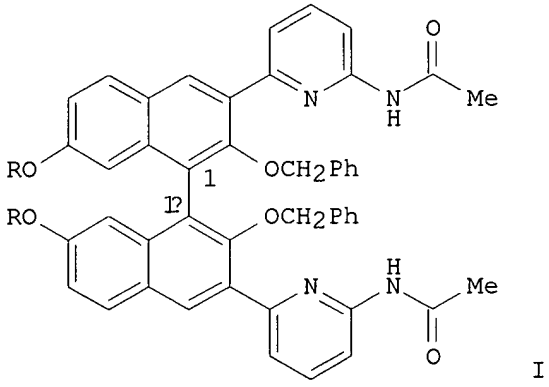


IT **220580-43-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of butynediyl- and xylylene-bridged allosteric binaphthalene receptors)
RN 220580-43-8 CAPLUS
CN Acetamide, N,N'-[[(1R)-2,2'-bis[(4-chloro-2-butynyl)oxy]-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



RE.CNT 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1998:180011 CAPLUS
DN 128:295007
TI Geometrical optimization of 1,1'-binaphthalene receptors for enantioselective molecular recognition of excitatory amino acid derivatives
AU Lustenberger, Philipp; Martinborough, Esther; Denti, Tiziana Mordasini; Diederich, Francois
CS Laboratorium fur Organische Chemie, Zurich, CH-8092, Switz.
SO Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1998), (4), 747-762
CODEN: JCPKBH; ISSN: 0300-9580
PB Royal Society of Chemistry
DT Journal; General Review
LA English
GI

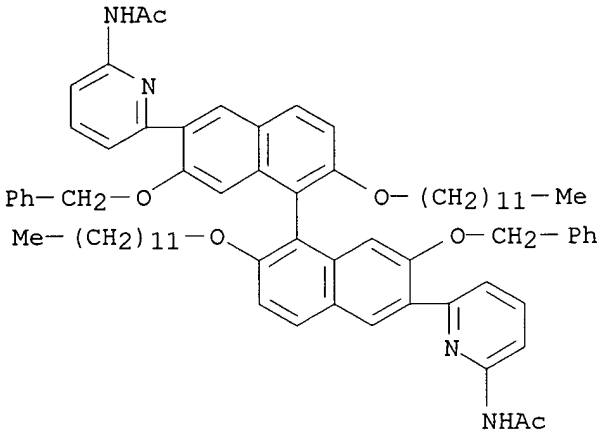


I

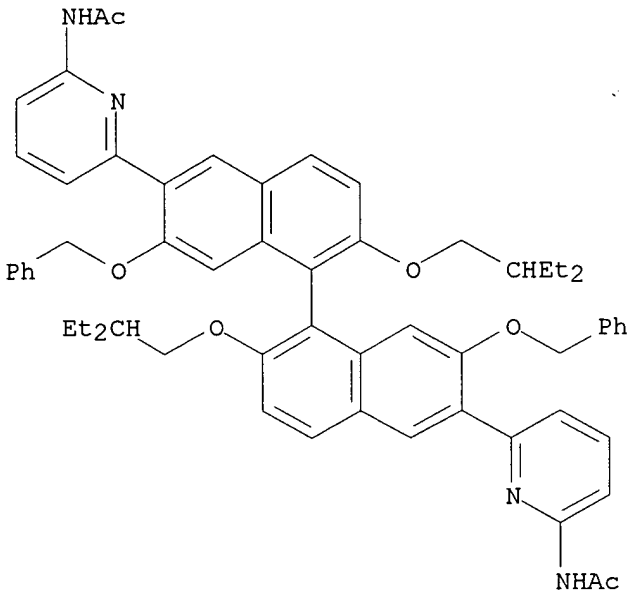
AB A series of optically active 1,1'-binaphthalene-derived receptors I [R = Me(CH2)11, Et2CHCH2, Me3CSiMe2, 1-adamantylmethyl; R-R = CH2, CH2CH2N+(Me2)CH2CH2, CH2CH2N(CO2Et)CH2CH2, CH2CH2NMeCH2CH2, CH2C.tplbond.CCH2, CH2-m-C6H4CH2] with (pyridine-2,6-diyl)acetamide hydrogen bonding sites in the 6,6'-positions has been prepd. for the enantioselective complexation of the protected excitatory amino acids Cbz-Asp-OH (Cbz = benzyloxycarbonyl) and Cbz-Glu-OH via two CO2H-CONH(py) hydrogen bonding arrays and addnl. secondary bonding interactions. The conformational homogeneity of the receptors is enhanced by locking the dihedral angle .theta. about the chirality axis through the 1,1'-binaphthalene C(1)-C(1') bond either by bridging the 2,2'-positions or by attaching bulky substituents to these centers. Computer modeling has shown that bridging is more efficient in locking this dihedral angle than the introduction of bulky substituents, and these predictions have been confirmed by 1H NMR binding studies in CDCl3 and in CDCl3-CD3OD (99.8:0.02). Plots of the enantioselectivity .DELTA.(.DELTA.G.degree.) (difference in stability between diastereoisomeric complexes) in the recognition by the bridged receptors as a function of the enforced dihedral angle .theta. are peak-shaped, and the highest values have been measured in CDCl3 (300K) for the complexation of the enantiomers of Cbz-Asp-OH [.DELTA.(.DELTA.G .degree.) = 6.9 kJ mol-1] and Cbz-Glu-OH

[.DELTA.(.DELTA.G .degree.) = 5.2 kJ mol-1] by (R)-I (2R = CH2CH2NMeCH2CH2) (.theta. = 86 .+-. 4.degree.). The more stable diastereoisomeric complexes are highly structured, and tight host-guest bonding has been confirmed by the observation of up to five intermol. NOEs. Enforcing the conformational homogeneity by bridging represents a new general principle for improving the chiral recognition potential of 1,1'-binaphthalene receptors. These data are preceded by a review describing the author's earlier work using helicene, spiro[bifluorene], and related binaphthyl-based receptors.

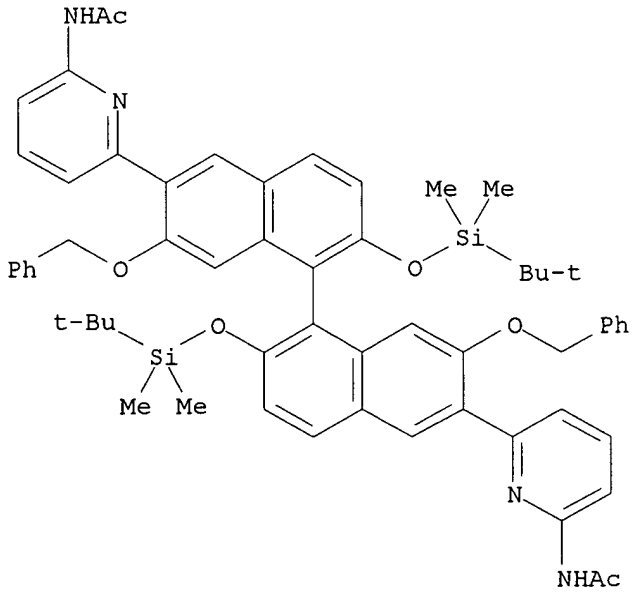
IT **171976-27-5**
RL: PRP (Properties)
(prepn. and enantioselective excitatory amino acid recognition of bis(pyridinediylacetamide)binaphthalene receptors)
RN 171976-27-5 CAPLUS
CN Acetamide, N,N'-[[(1R)-2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



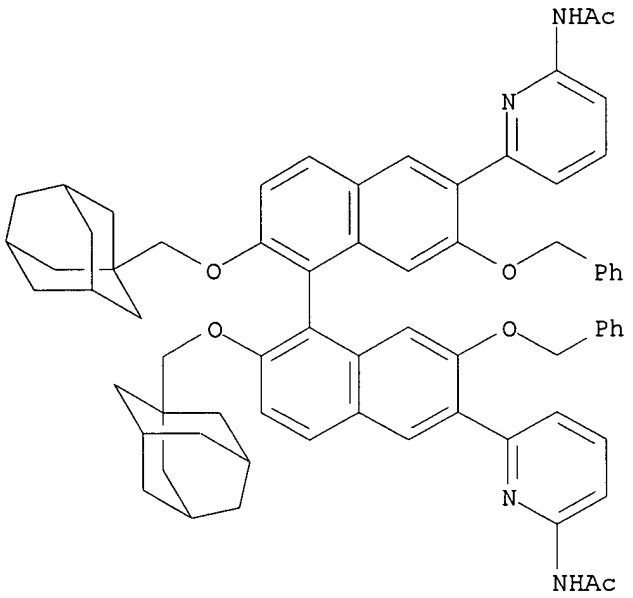
IT **205940-00-7P 205940-01-8P 205940-02-9P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and enantioselective excitatory amino acid recognition of bis(pyridinediylacetamide)binaphthalene receptors)
RN 205940-00-7 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(2-ethylbutoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



RN 205940-01-8 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



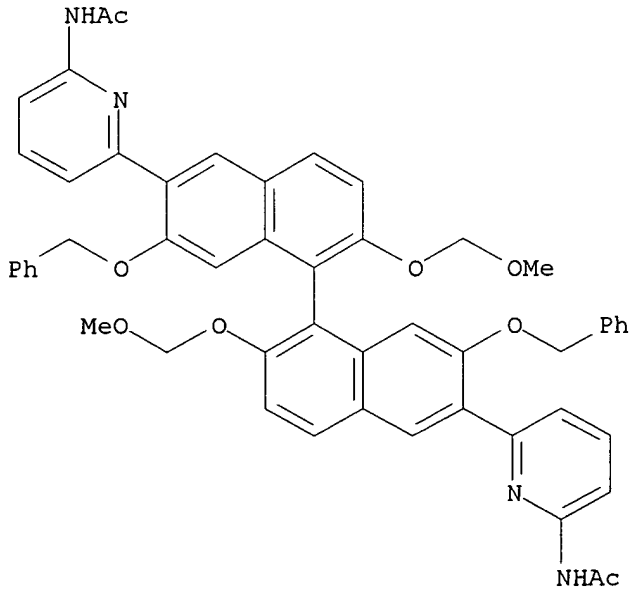
RN 205940-02-9 CAPLUS
CN Acetamide, N,N'-[[7,7'-bis(phenylmethoxy)-2,2'-bis(tricyclo[3.3.1.13,7]dec-1-ylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



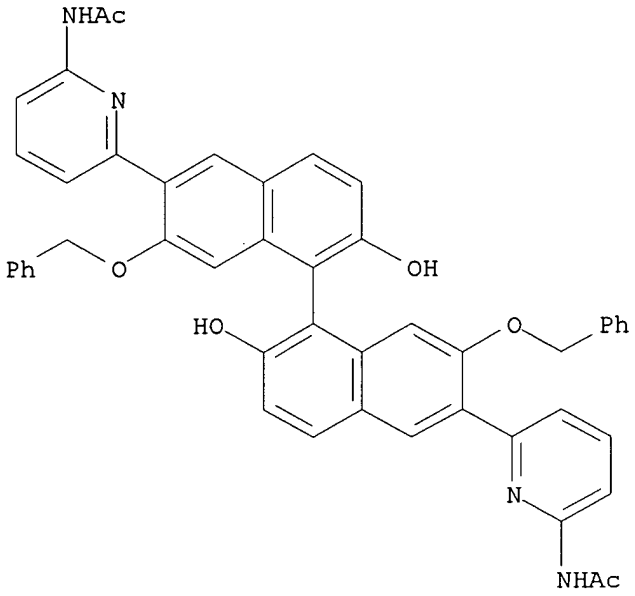
IT **205940-05-2P 205940-06-3P 205940-13-2P 205940-14-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and enantioselective excitatory amino acid recognition of bis(pyridinediylacetamide)binaphthalene receptors)

RN 205940-05-2 CAPLUS

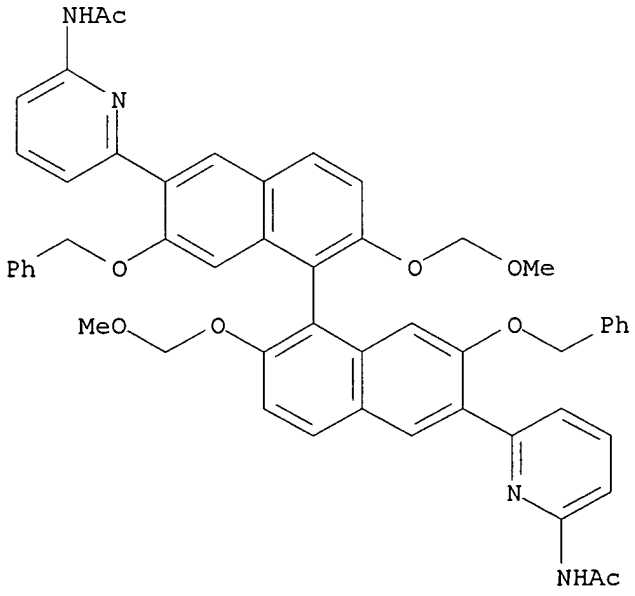
CN Acetamide, N,N'-[[2,2'-bis(methoxymethoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



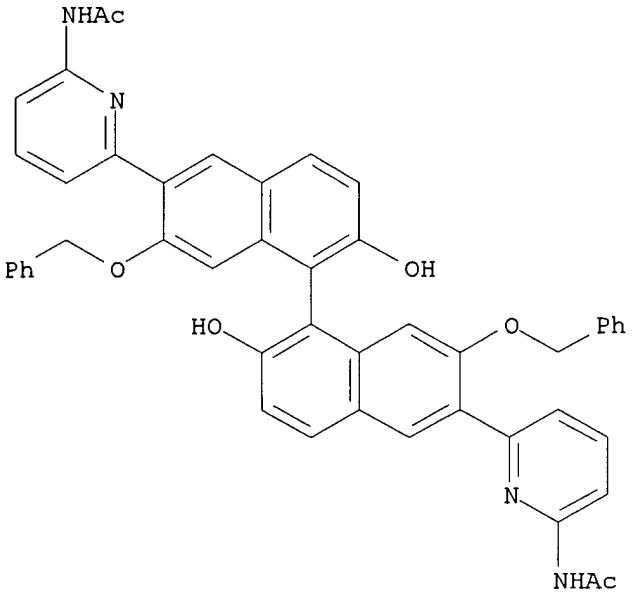
RN 205940-06-3 CAPLUS
CN Acetamide, N,N'-[[2,2'-dihydroxy-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



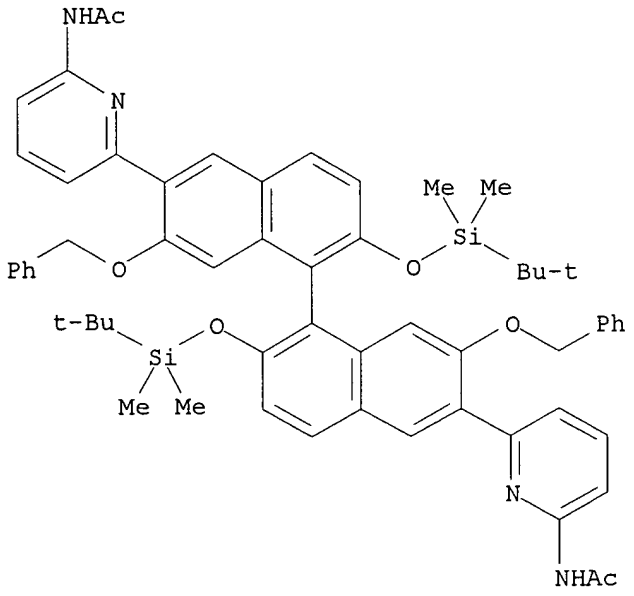
RN 205940-13-2 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(methoxymethoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



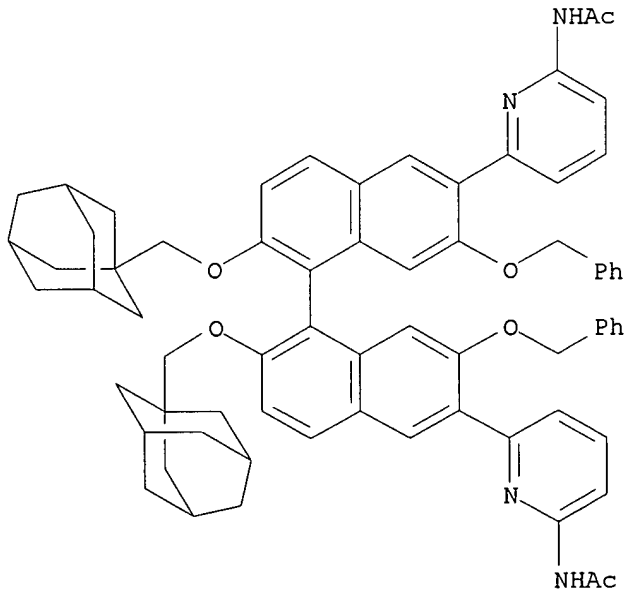
RN 205940-14-3 CAPLUS
CN Acetamide, N,N'-[[2,2'-dihydroxy-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



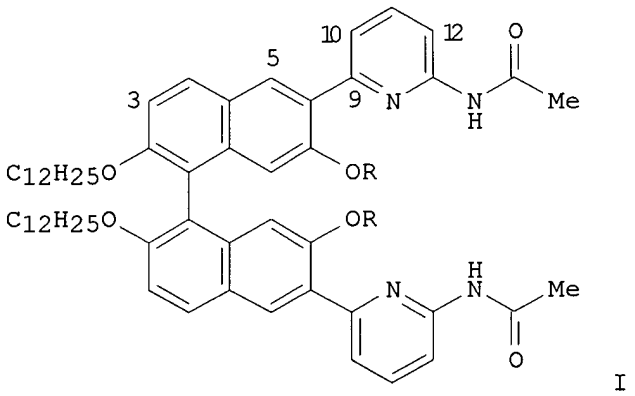
IT **205940-10-9P 205940-11-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and enantioselective excitatory amino acid recognition of bis(pyridinediylacetamide)binaphthalene receptors)
RN 205940-10-9 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



RN 205940-11-0 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(tricyclo[3.3.1.13,7]dec-1-ylmethoxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



L19 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1995:834662 CAPLUS
DN 124:56600
TI Chiral 1,1'-binaphthyl molecular clefts for the complexation of excitatory amino-acid derivatives
AU Martinborough, Esther; Denti, Tiziana Modasini; Castro, Peter P.; Wyman, Tara B.; Knobler, Carolyn B.; Diederich, Francois
CS Lab. Org. Chem., Eidgenoessichen Tech. Hocheschule, Zurich, CH08092, Switz.
SO Helvetica Chimica Acta (1995), 78(5), 1037-66
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 124:56600
GI



I

AB The complexation of N-Cbz derivs. of Asp, Glu, and L-kainic acid was studied in CDCl3 with various chiral receptors consisting of a 1,1'-binaphthyl spacer with (carboxamido)pyridine functionality at the 6,6'-positions in the major groove. Receptors of type A possess 2 N-(pyridin-2-yl)carboxamide H-bonding sites, whereas type B-receptors have 2 N-(pyridine-2,6-diyl)acetamide residues attached. Complexes of excitatory amino-acid derivs. and other, achiral .alpha.,.omega.-dicarboxylic acids with these receptors are primarily stabilized by 2 sets of C:O.cntdot..cntdot..cntdot.H-N and O-H.cntdot..cntdot..cntdot.N H-bonds. Optically active type-A receptors showed a preference for the large Glu deriv., whereas type-B receptors formed more stable complexes with the smaller Cbz-Asp. To improve the poor enantioselectivity addnl. functionality was introduced at the 7,7'-positions of the 1,1'-binaphthyl spacer, and the nature of the H-bonding sites in the 6,6'-positions was varied. (.+-.)-I [R = CH2Ph, Me] formed the most stable complexes with dicarboxylic acids, and these receptors were synthesized in enantiomerically pure form. By 1H NMR binding titrns., the complexation of (R)- and (S)-I with the excitatory amino-acid derivs. was studied in CDCl3, and assocn. consts. of Ka = 103 - 2 .times. 105 L.cntdot.mmol-1 were measured for the 1:1 host-guest complexes. Enantioselective binding was limited to I [R = CH2Ph], with the (R)-enantiomer complexing Cbz-Asp

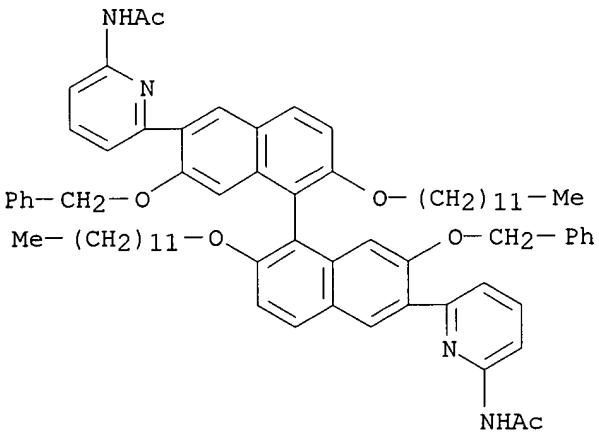
by 0.7 kcal.cntdot.mol-1 more tightly than the (S)-enantiomer. An unusual variety of interesting arom. interactions and secondary electrostatic interactions are responsible for the high binding affinity and the enantioselection obsd. with (R)- and (S)-I [R = CH2Ph]. To enhance the enantioselectivity by reducing the conformational flexibility of the 1,1'-binaphthyl spacer, an addnl. crown-ether binding site was attached to the 2,2'-positions in the minor groove of type-B receptors. The binding affinity and the enantioselectivity were not altered upon complexation of Hg(CN)2 at the crown-ether binding site, demonstrating lack of cooperativity between the minor- and major-groove recognition sites.

IT **171976-53-7P 171976-54-8P 171976-59-3P**
171976-60-6P 171976-61-7P 171976-62-8P
171976-63-9P 171976-64-0P 171976-65-1P
171976-66-2P 171976-67-3P 171976-68-4P
171976-69-5P 171976-70-8P 171976-71-9P
171976-90-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(assocn. consts. and prepn. of chiral 1,1'-binaphthyl mol. clefts with .alpha.,.omega.-dicarboxylic acid recognition sites)

RN 171976-53-7 CAPLUS
RN 171976-54-8 CAPLUS
RN 171976-59-3 CAPLUS
CN Butanedioic acid, 2,2-diphenyl-, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

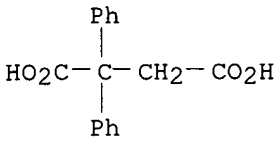
CM 1

CRN 171976-26-4
CMF C72 H86 N4 O6



CM 2

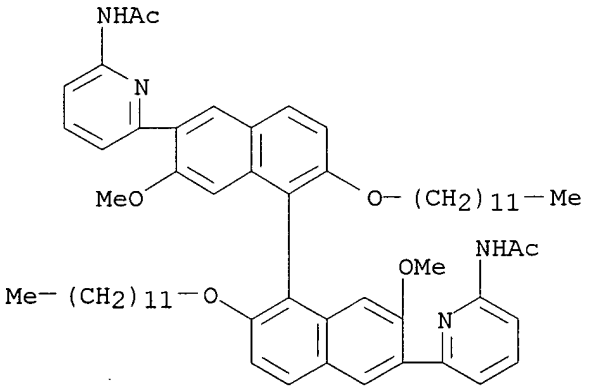
CRN 10186-26-2
CMF C16 H14 O4



RN 171976-60-6 CAPLUS
CN Butanedioic acid, 2,2-diphenyl-, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

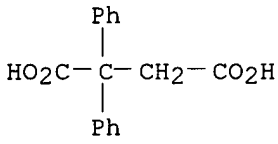
CM 1

CRN 171976-29-7
CMF C60 H78 N4 O6



CM 2

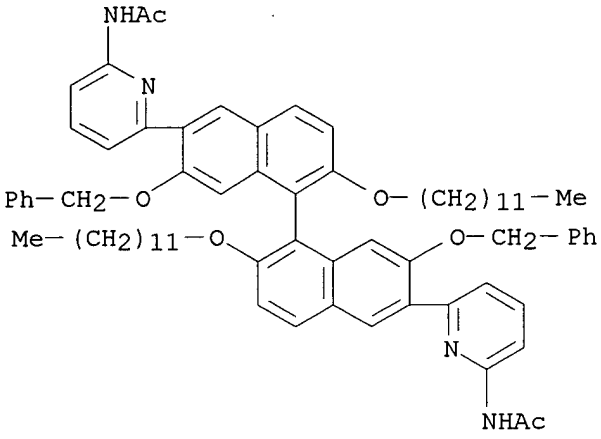
CRN 10186-26-2
CMF C16 H14 O4



RN 171976-61-7 CAPLUS
CN Pentanedioic acid, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-26-4
CMF C72 H86 N4 O6



CM 2

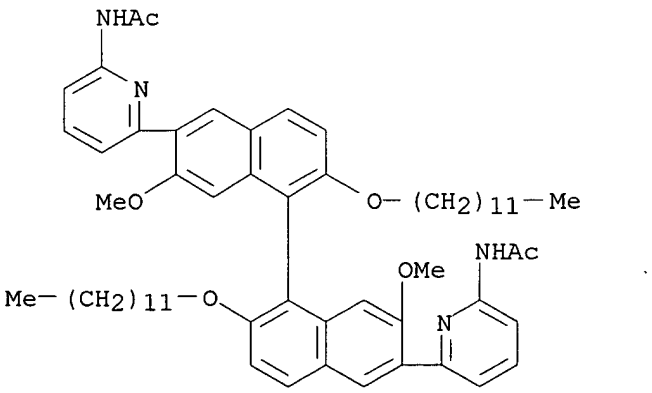
CRN 110-94-1
CMF C5 H8 O4

$HO_2C-(CH_2)_3-CO_2H$

RN 171976-62-8 CAPLUS
CN Pentanedioic acid, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

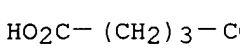
CM 1

CRN 171976-29-7
CMF C60 H78 N4 O6



CM 2

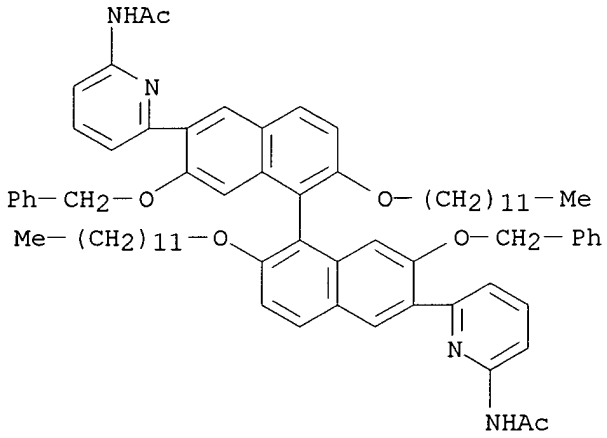
CRN 110-94-1
CMF C5 H8 O4



RN 171976-63-9 CAPLUS
CN Pentanedioic acid, monomethyl ester, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

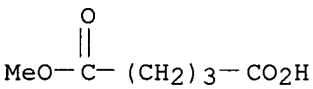
CM 1

CRN 171976-26-4
CMF C72 H86 N4 O6



CM 2

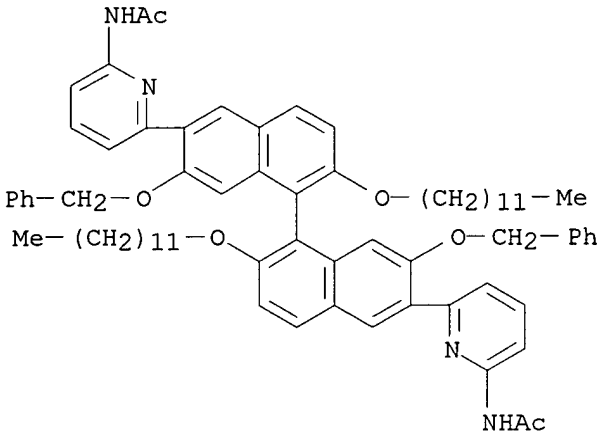
CRN 1501-27-5
CMF C6 H10 O4



RN 171976-64-0 CAPLUS
CN Heptanedioic acid, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-26-4
CMF C72 H86 N4 O6



CM 2

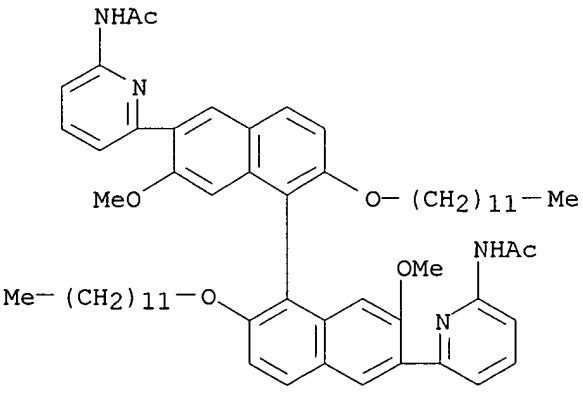
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-65-1 CAPLUS
CN Heptanedioic acid, compd. with N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-29-7
CMF C60 H78 N4 O6



CM 2

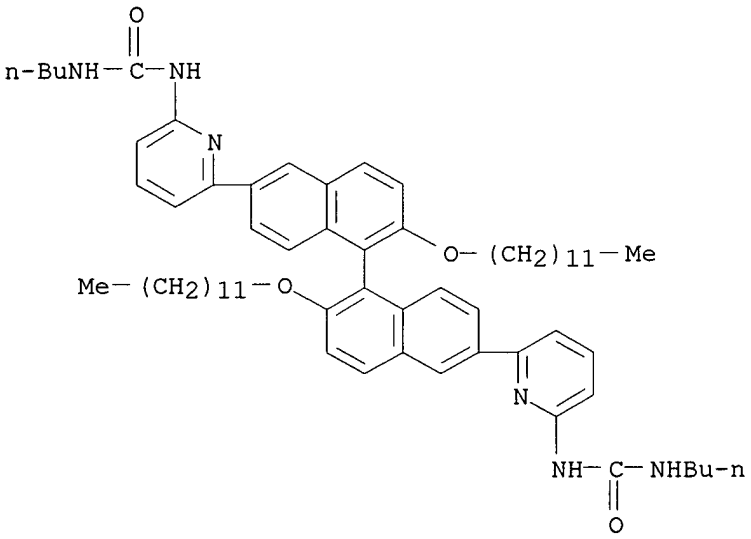
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-66-2 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-34-4
CMF C64 H88 N6 O4



CM 2

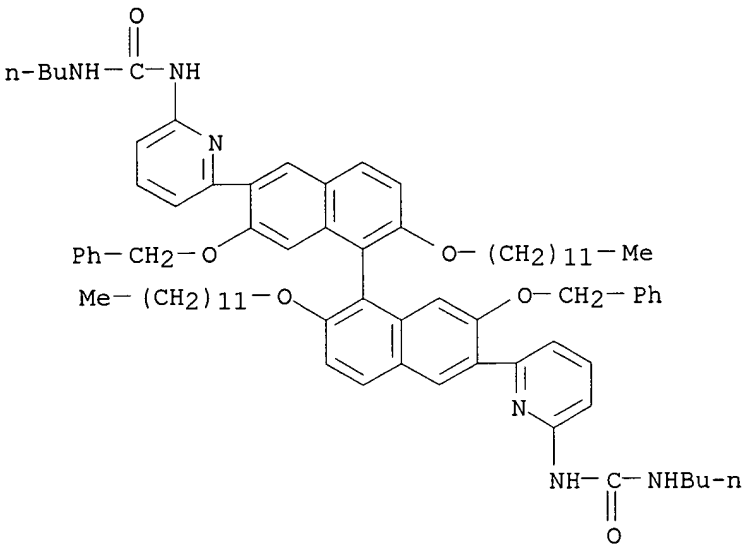
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-67-3 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-35-5
CMF C78 H100 N6 O6



CM 2

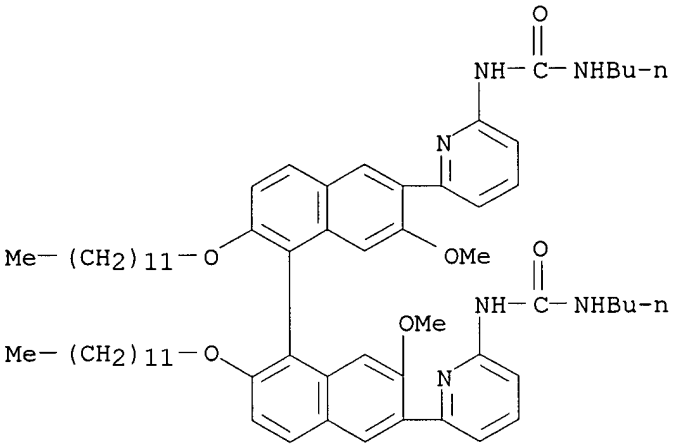
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-68-4 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-dinaphthaene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-36-6
CMF C66 H92 N6 O6



CM 2

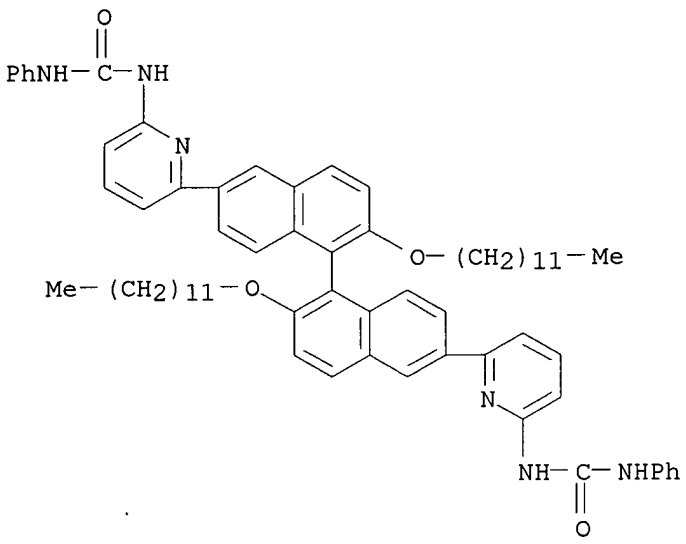
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-69-5 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-38-8
CMF C68 H80 N6 O4



CM 2

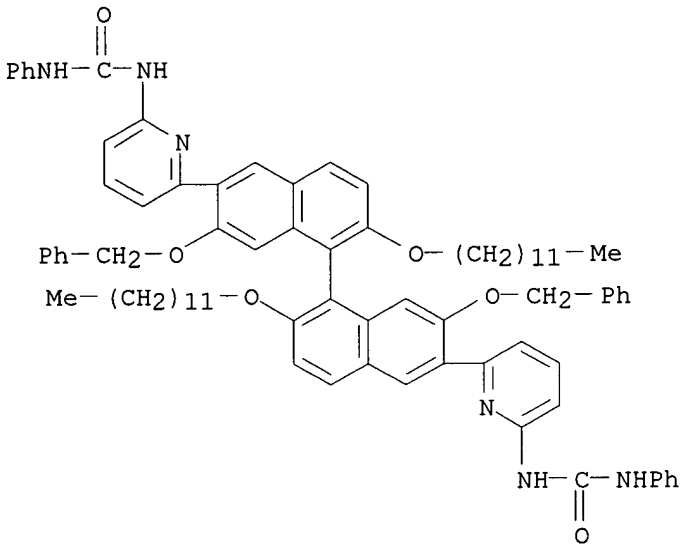
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-70-8 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-39-9
CMF C82 H92 N6 O6



CM 2

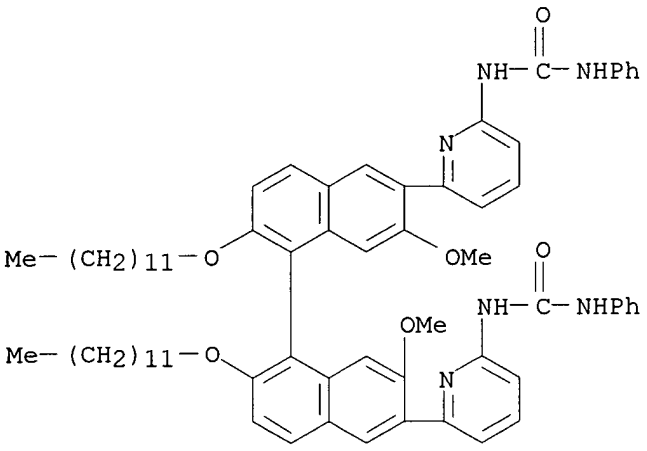
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-71-9 CAPLUS
CN Heptanedioic acid, compd. with N,N''-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenylurea] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 171976-40-2
CMF C70 H84 N6 O6



CM 2

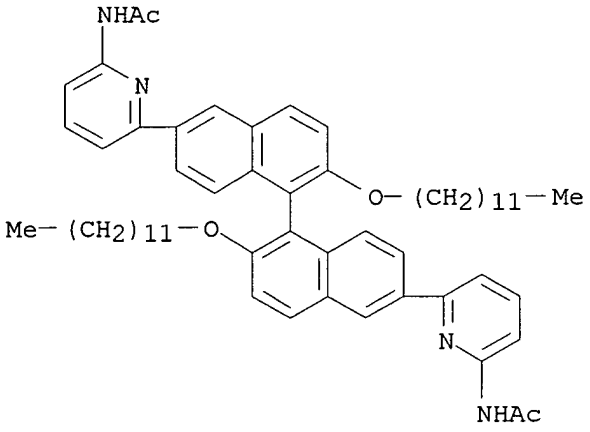
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 171976-90-2 CAPLUS
IT **171976-47-9P 171976-48-0P 171976-49-1P**
171976-50-4P 171976-73-1P 171976-74-2P
171976-75-3P 171976-76-4P 171976-77-5P
171976-78-6P 171976-79-7P 171976-80-0P
171976-81-1P 171976-82-2P 172139-13-8P
172139-14-9P 172139-15-0P 172139-16-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of chiral 1,1'-binaphthyl mol. clefts for complexation of excitatory amino-acid derivs.)
RN 171976-47-9 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

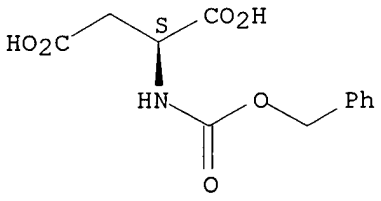
CRN 171976-21-9
CMF C58 H74 N4 O4
CDES 1:R



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

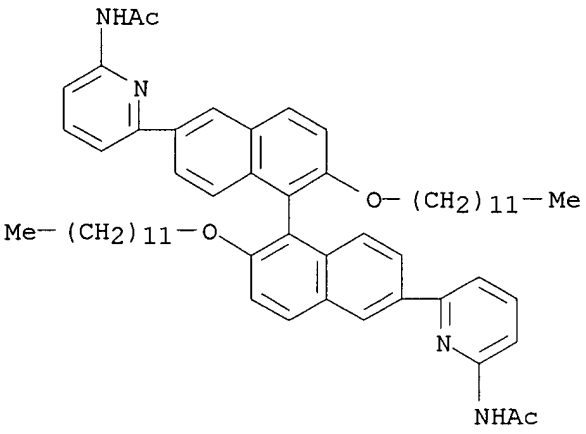
Absolute stereochemistry.



RN 171976-48-0 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

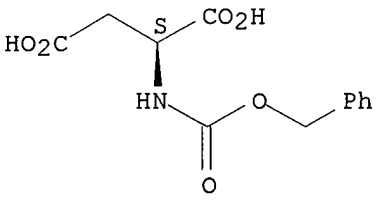
CRN 171976-22-0
CMF C58 H74 N4 O4
CDES 1:S



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

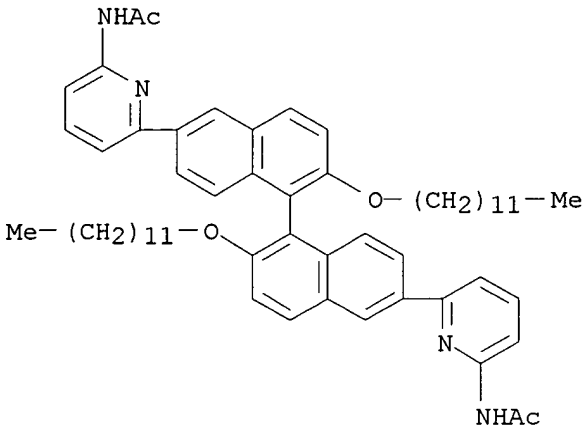
Absolute stereochemistry.



RN 171976-49-1 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

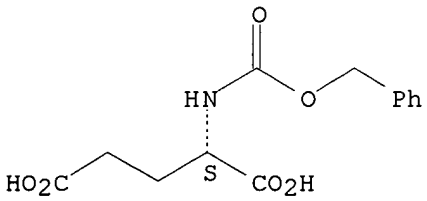
CRN 171976-21-9
CMF C58 H74 N4 O4
CDES 1:R



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

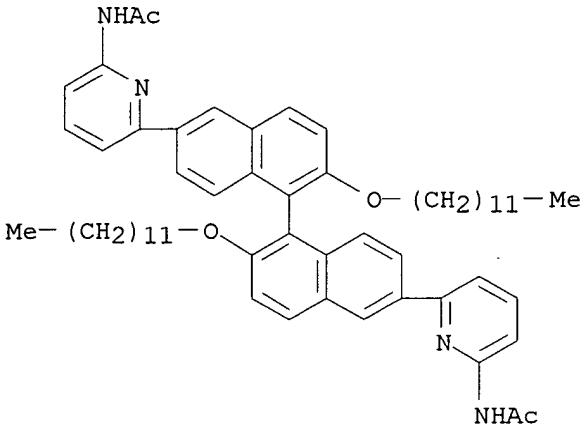
Absolute stereochemistry.



RN 171976-50-4 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

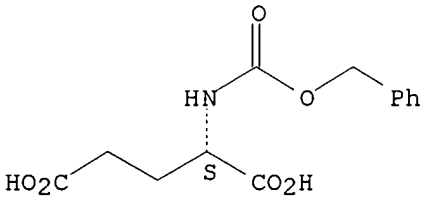
CRN 171976-22-0
CMF C58 H74 N4 O4
CDES 1:S



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

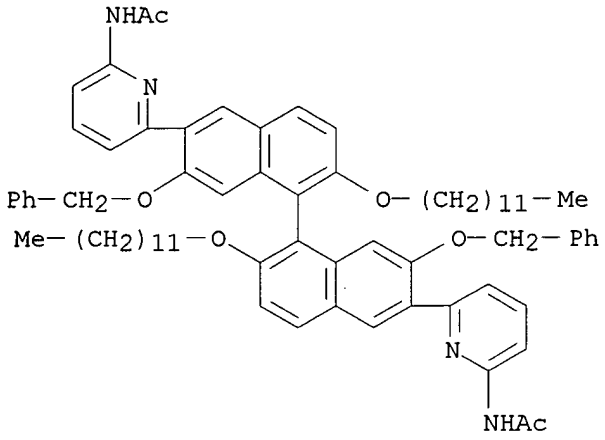
Absolute stereochemistry.



RN 171976-73-1 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

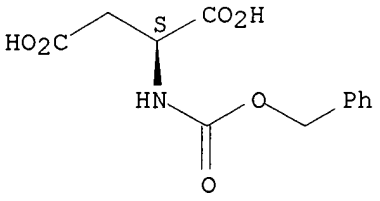
CRN 171976-27-5
CMF C72 H86 N4 O6
CDES 1:R



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

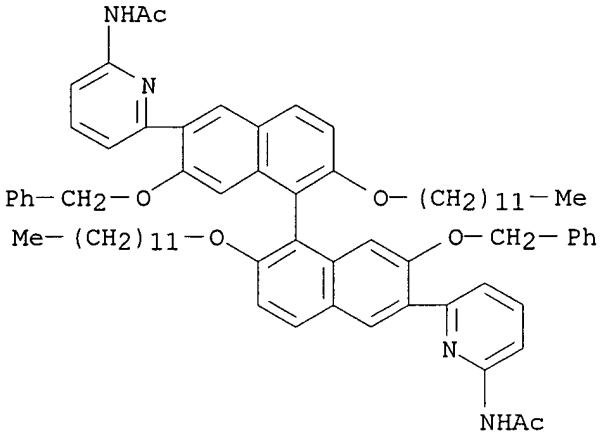
Absolute stereochemistry.



RN 171976-74-2 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

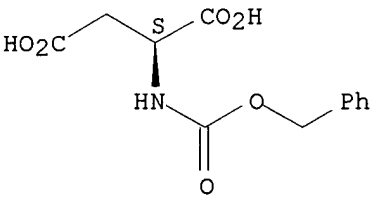
CRN 171976-28-6
CMF C72 H86 N4 O6
CDES 1:S



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

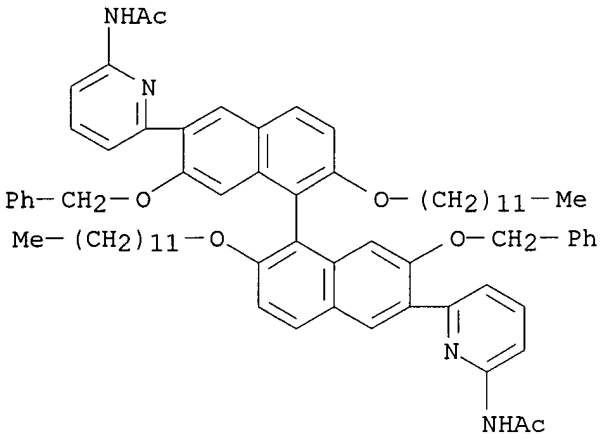
Absolute stereochemistry.



RN 171976-75-3 CAPLUS
CN D-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

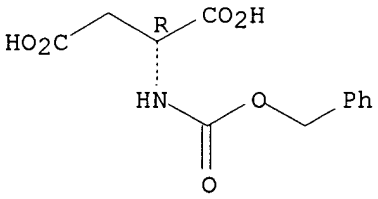
CRN 171976-27-5
CMF C72 H86 N4 O6
CDES 1:R



CM 2

CRN 78663-07-7
CMF C12 H13 N O6
CDES 5:D

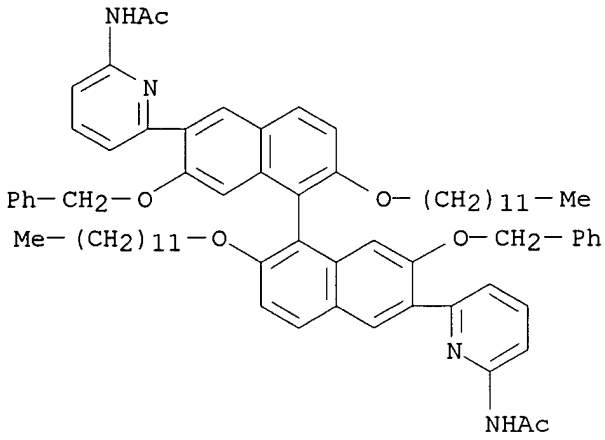
Absolute stereochemistry.



RN 171976-76-4 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

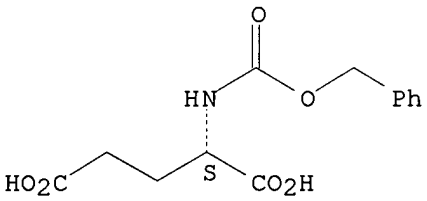
CRN 171976-27-5
CMF C72 H86 N4 O6
CDES 1:R



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

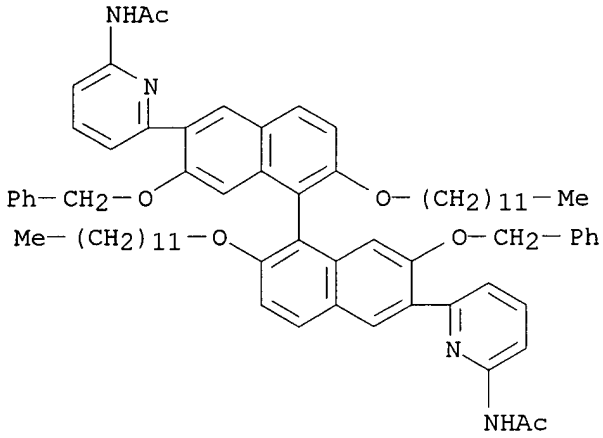
Absolute stereochemistry.



RN 171976-77-5 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

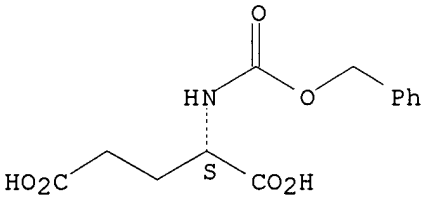
CRN 171976-28-6
CMF C72 H86 N4 O6
CDES 1:S



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

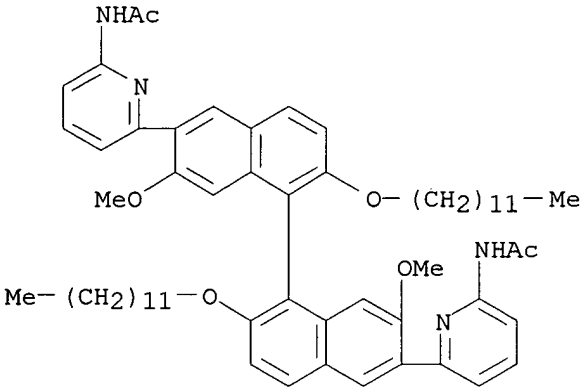
Absolute stereochemistry.



RN 171976-78-6 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

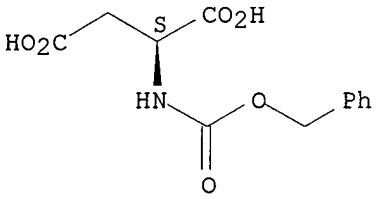
CRN 171976-30-0
CMF C60 H78 N4 O6
CDES 1:R



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

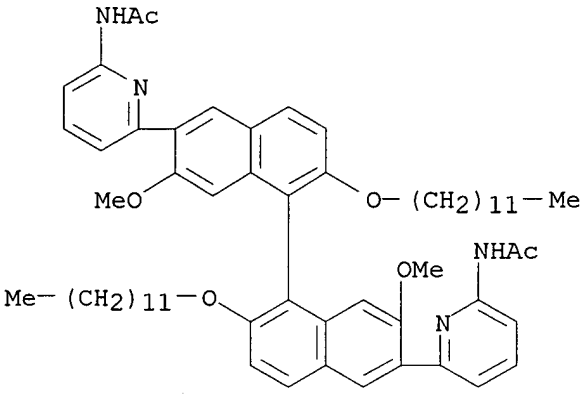
Absolute stereochemistry.



RN 171976-79-7 CAPLUS
CN L-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

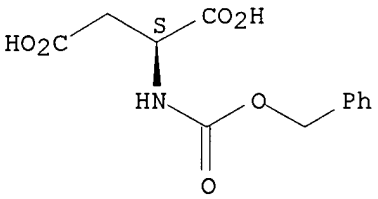
CRN 171976-31-1
CMF C60 H78 N4 O6
CDES 1:S



CM 2

CRN 1152-61-0
CMF C12 H13 N O6
CDES 5:L

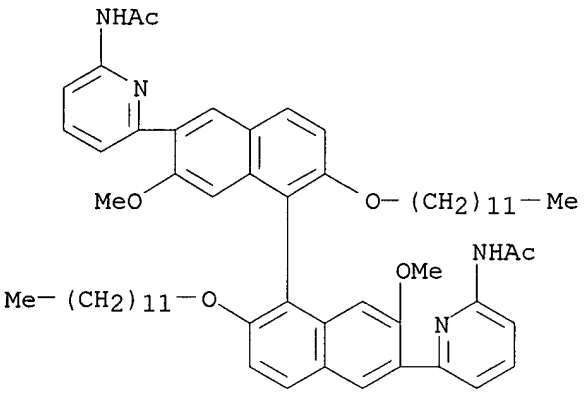
Absolute stereochemistry.



RN 171976-80-0 CAPLUS
CN D-Aspartic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

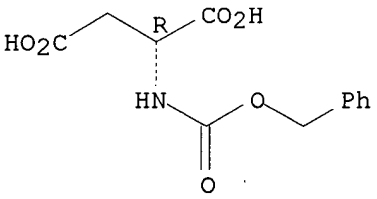
CRN 171976-30-0
CMF C60 H78 N4 O6
CDES 1:R



CM 2

CRN 78663-07-7
CMF C12 H13 N O6
CDES 5:D

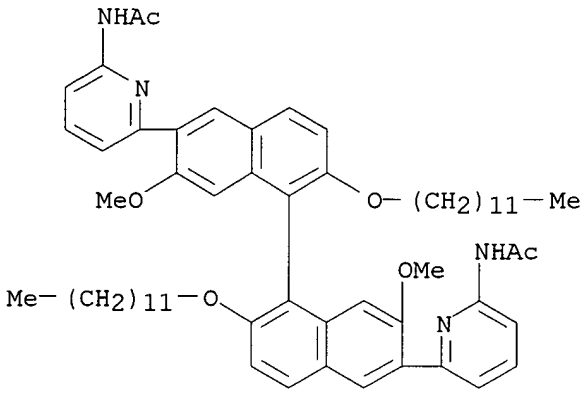
Absolute stereochemistry.



RN 171976-81-1 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

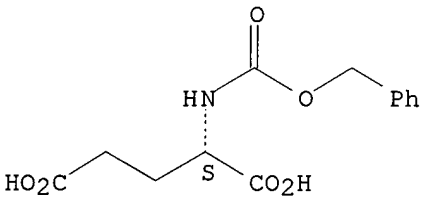
CRN 171976-30-0
CMF C60 H78 N4 O6
CDES 1:R



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

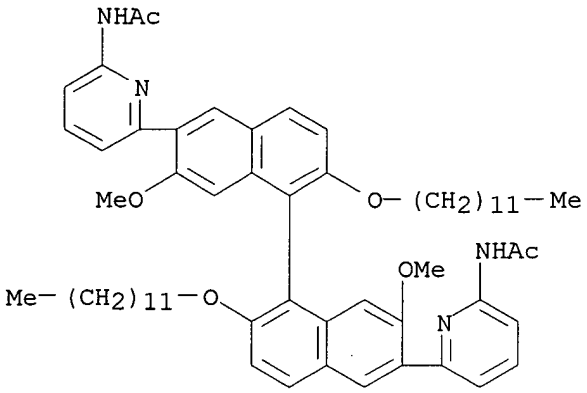
Absolute stereochemistry.



RN 171976-82-2 CAPLUS
CN L-Glutamic acid, N-[(phenylmethoxy)carbonyl]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

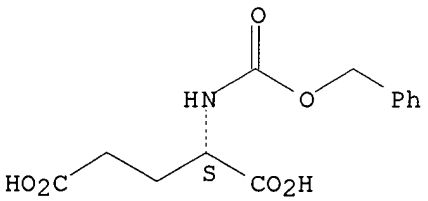
CRN 171976-31-1
CMF C60 H78 N4 O6
CDES 1:S



CM 2

CRN 1155-62-0
CMF C13 H15 N O6
CDES 5:L

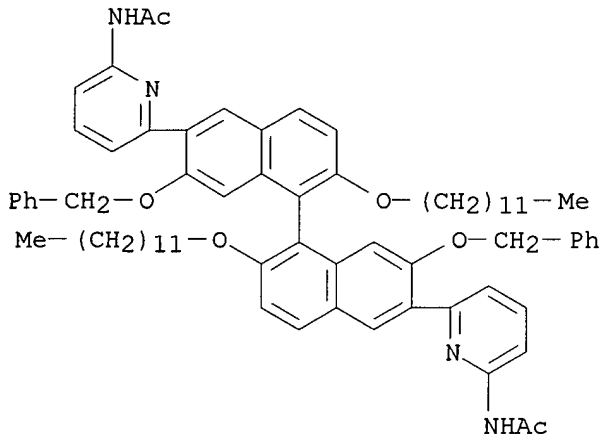
Absolute stereochemistry.



RN 172139-13-8 CAPLUS
CN 1,2-Pyrrolidinedicarboxylic acid, 3-(carboxymethyl)-4-(1-methylethenyl)-, 1-(phenylmethyl) ester, [2S-(2.alpha.,3.beta.,4.beta.)]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

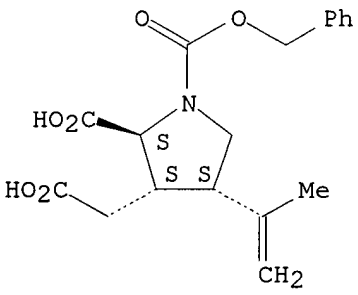
CRN 171976-27-5
CMF C72 H86 N4 O6
CDES 1:R



CM 2

CRN 73903-33-0
CMF C18 H21 N O6
CDES 1:2S2:2A,3B,4B

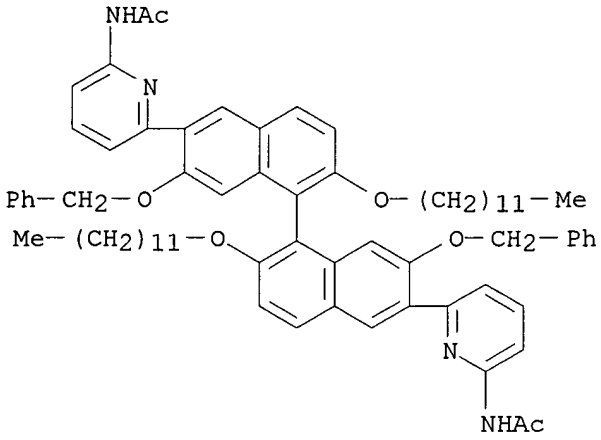
Absolute stereochemistry.



RN 172139-14-9 CAPLUS
CN 1,2-Pyrrolidinedicarboxylic acid, 3-(carboxymethyl)-4-(1-methylethenyl)-, 1-(phenylmethyl) ester, [2S-(2.alpha.,3.beta.,4.beta.)]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

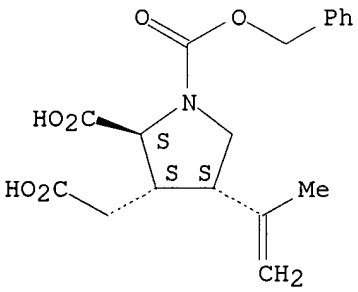
CRN 171976-28-6
CMF C72 H86 N4 O6
CDES 1:S



CM 2

CRN 73903-33-0
CMF C18 H21 N O6
CDES 1:2S2:2A,3B,4B

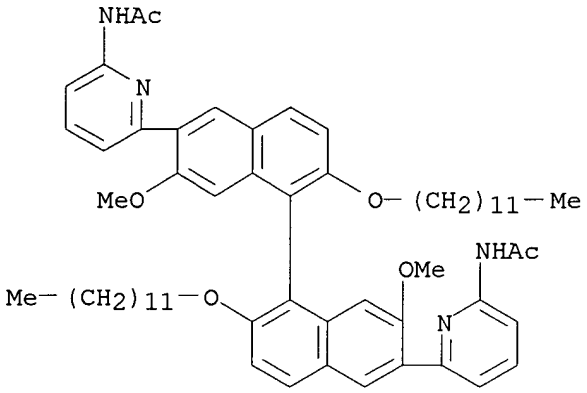
Absolute stereochemistry.



RN 172139-15-0 CAPLUS
CN 1,2-Pyrrolidinedicarboxylic acid, 3-(carboxymethyl)-4-(1-methylethenyl)-, 1-(phenylmethyl) ester, [2S-(2.alpha.,3.beta.,4.beta.)]-, compd. with (R)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

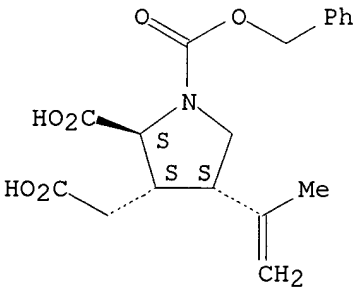
CRN 171976-30-0
CMF C60 H78 N4 O6
CDES 1:R



CM 2

CRN 73903-33-0
CMF C18 H21 N O6
CDES 1:2S2:2A,3B,4B

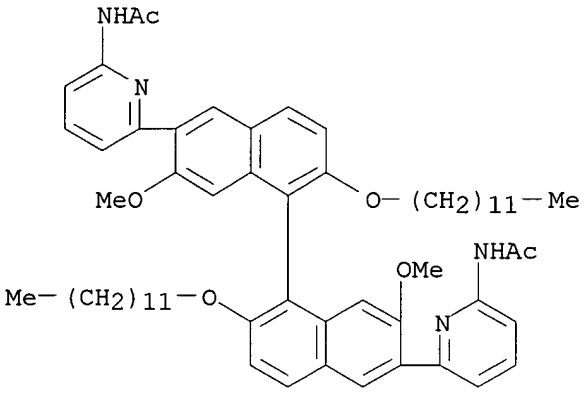
Absolute stereochemistry.



RN 172139-16-1 CAPLUS
CN 1,2-Pyrrolidinedicarboxylic acid, 3-(carboxymethyl)-4-(1-methylethenyl)-, 1-(phenylmethyl) ester, [2S-(2.alpha.,3.beta.,4.beta.)]-, compd. with (S)-N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

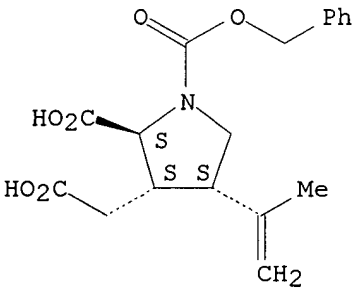
CRN 171976-31-1
CMF C60 H78 N4 O6
CDES 1:S



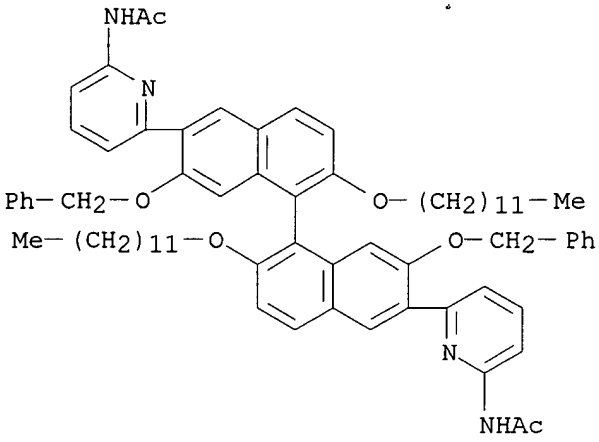
CM 2

CRN 73903-33-0
CMF C18 H21 N O6
CDES 1:2S2:2A,3B,4B

Absolute stereochemistry.



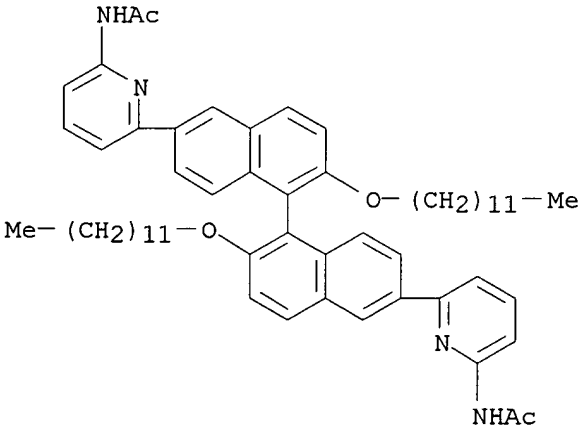
IT **171976-26-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of chiral 1,1'-binaphthyl mol. clefts for complexation of excitatory amino-acid derivs.)
RN 171976-26-4 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



IT **171976-20-8P 171976-21-9P 171976-22-0P**
171976-27-5P 171976-28-6P 171976-29-7P
171976-30-0P 171976-31-1P 171976-32-2P
171976-34-4P 171976-35-5P 171976-36-6P
171976-38-8P 171976-39-9P 171976-40-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of chiral 1,1'-binaphthyl mol. clefts for complexation of excitatory amino-acid derivs.)

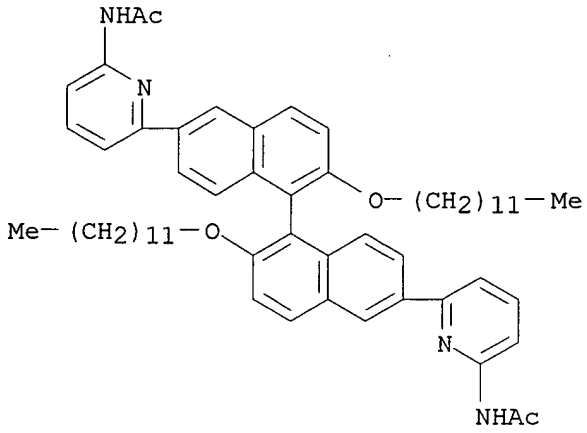
RN 171976-20-8 CAPLUS

CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)

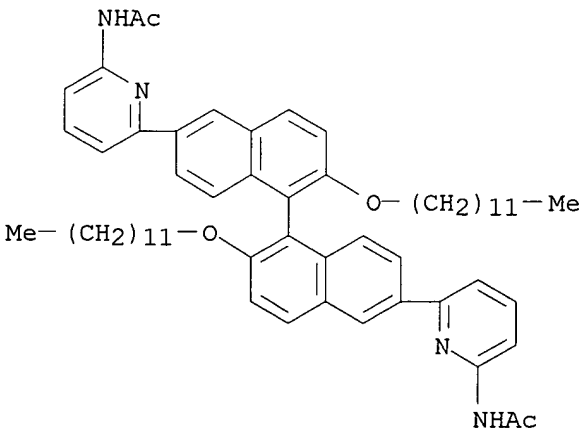


RN 171976-21-9 CAPLUS

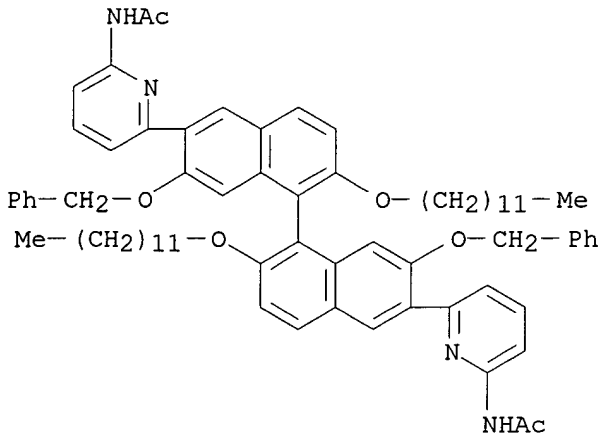
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



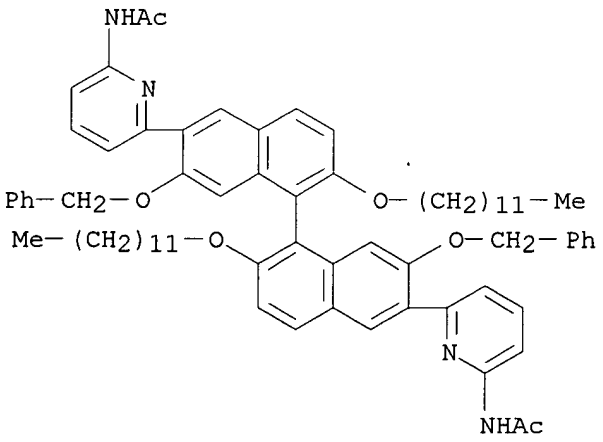
RN 171976-22-0 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



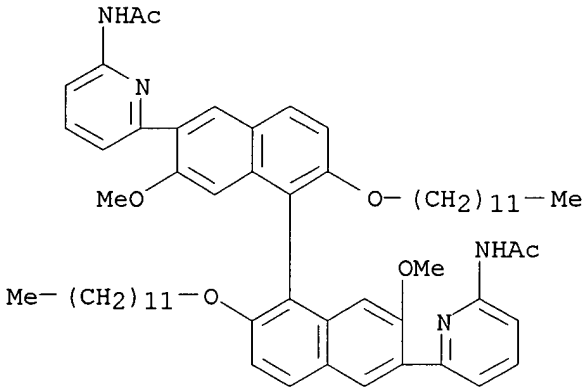
RN 171976-27-5 CAPLUS
CN Acetamide, N,N'-[[(1R)-2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



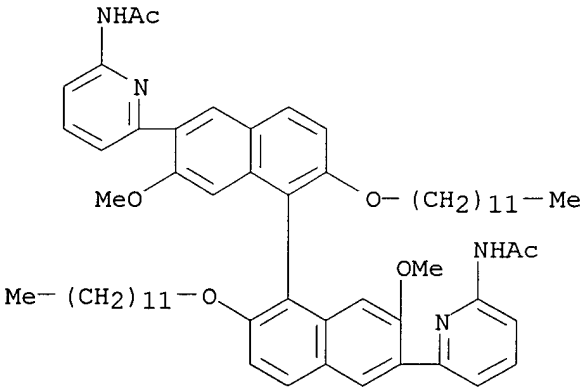
RN 171976-28-6 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



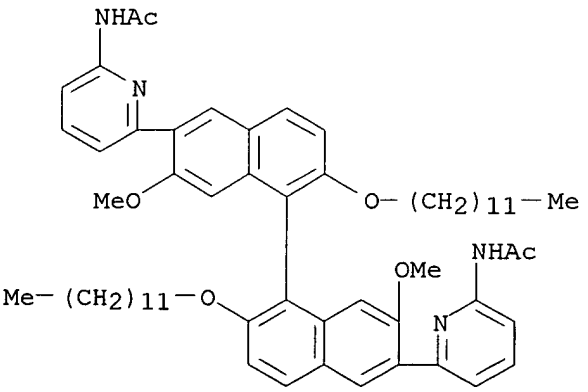
RN 171976-29-7 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



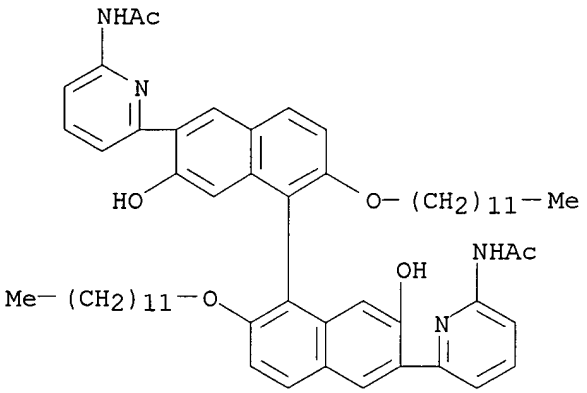
RN 171976-30-0 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (R)- (9CI) (CA INDEX NAME)



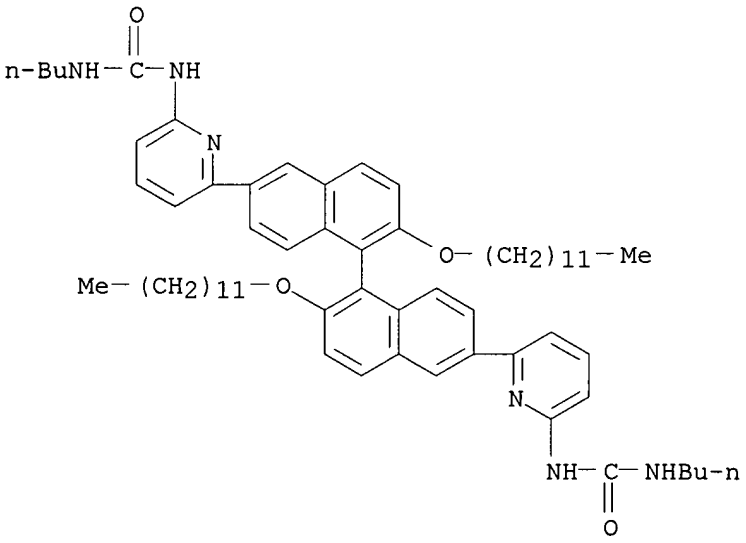
RN 171976-31-1 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis-, (S)- (9CI) (CA INDEX NAME)



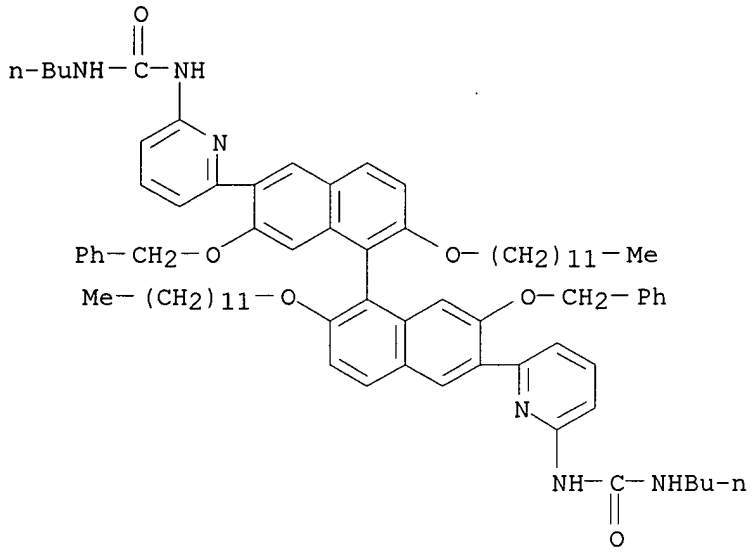
RN 171976-32-2 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(dodecyloxy)-7,7'-dihydroxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)



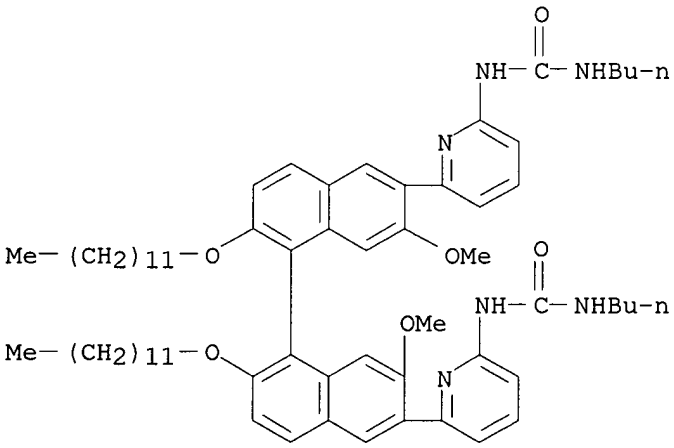
RN 171976-34-4 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butyl- (9CI) (CA INDEX NAME)



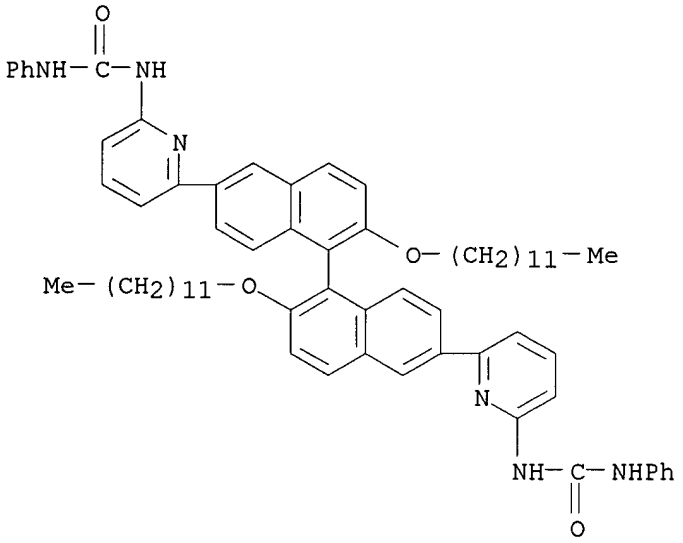
RN 171976-35-5 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butyl- (9CI) (CA INDEX NAME)



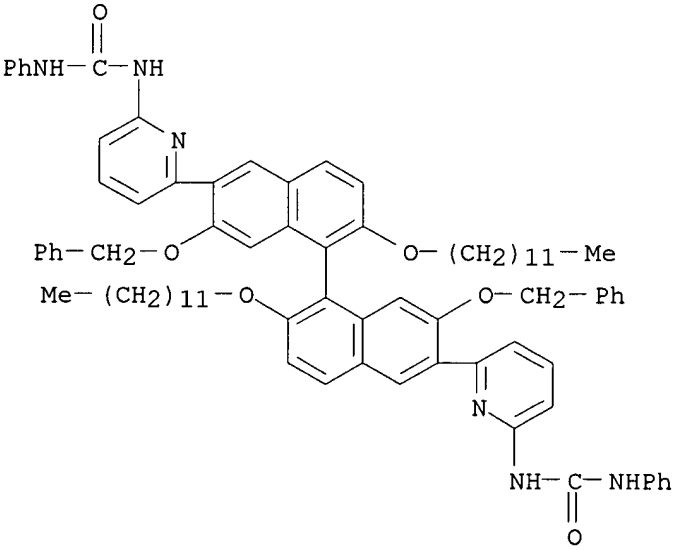
RN 171976-36-6 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-butyl- (9CI) (CA INDEX NAME)



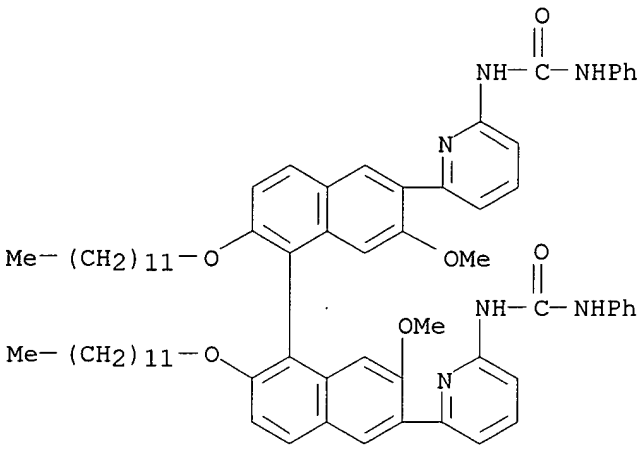
RN 171976-38-8 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenyl- (9CI) (CA INDEX NAME)



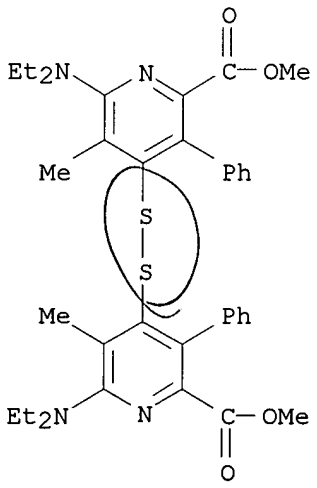
RN 171976-39-9 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)-7,7'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenyl- (9CI) (CA INDEX NAME)



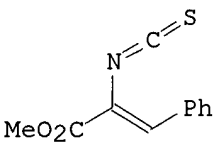
RN 171976-40-2 CAPLUS
CN Urea, N,N''-[[2,2'-bis(dodecyloxy)-7,7'-dimethoxy[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[N'-phenyl- (9CI) (CA INDEX NAME)

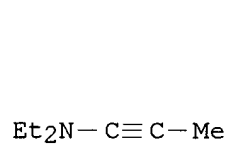

O
NH— C— NHPh
N
Me— (CH2)11— O
OMe
O
NH— C— NHPh
OMe
Me— (CH2)11— O
N

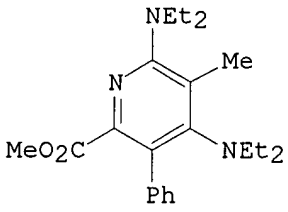
L19 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1995:203025 CAPLUS
DN 122:81082
TI Synthesis of pentasubstituted pyridines. II. NMR study of the addition products of 1-(N,N-diethylamino)prop-1-yne to methyl 2-isothiocyanato-3-phenylpropenoate
AU Pelaez-Arango, Elvira; Lopez-Oritz, Fernando; Barluenga, Jose; Ferrero, Miguel; Palacios, Francisco
CS Instituto Univ. Quimica Organometalica Enrique Moles, Oviedo, 33071, Spain
SO Magnetic Resonance in Chemistry (1994), 32(11), 646-51
CODEN: MRCHEG; ISSN: 0749-1581
PB Wiley
DT Journal
LA English
AB The structure of the pentasubstituted pyridines obtained in the reaction of Me 2-isothiocyanato-3-phenylpropenoate with 1-(N,N-diethylamino)prop-1-yne were assigned based on 2D heteronuclear correlation expts. and NOE measurements. At 0.degree.C a 2-azabicyclo[2.2.2]octa-2,7-diene intermediate was isolated and spectroscopically characterized.
IT **156727-20-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 156727-20-7 CAPLUS
CN 2-Pyridinecarboxylic acid, 4,4'-dithiobis[6-(diethylamino)-5-methyl-3-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

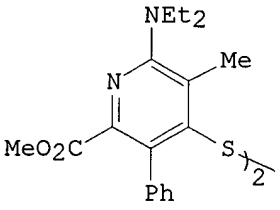


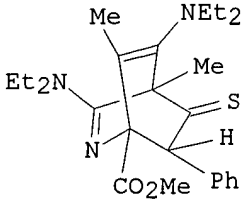
L19 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1994:508460 CAPLUS
DN 121:108460
TI A new domino synthesis of polyfunctionalized pentasubstituted pyridines
AU Barluenga, Jose; Ferrero, Miguel; Pelaez-Arango, Elvira; Lopez-Ortiz, Fernando; Palacios, Francisco
CS Dep. Quim. Org., Univ. Oviedo, Oviedo, 33071, Spain
SO Journal of the Chemical Society, Chemical Communications (1994), (7), 865-6
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English
OS CASREACT 121:108460
GI


I


II


III


IV

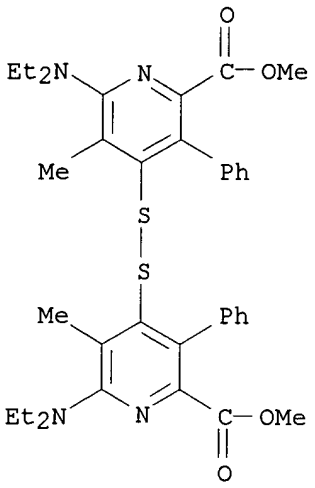

V

AB The reaction of N-vinylisocyanate (I) and ynamine (II) at 0-25 .degree. affords pyridines III and IV regioselectivity; the intermediate azanorbornadiene V has been isolated and spectroscopically characterized.

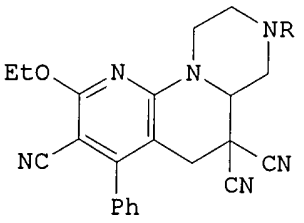
IT **156727-20-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 156727-20-7 CAPLUS

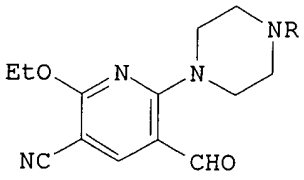
CN 2-Pyridinecarboxylic acid, 4,4'-dithiobis[6-(diethylamino)-5-methyl-3-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



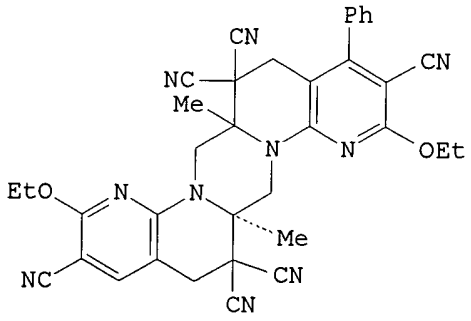
L19 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1993:671107 CAPLUS
DN 119:271107
TI Synthesis of pyrazino[1,2-a:4,5-a']di[1,8]naphthyridine and pyrazino[1,2-a][1,8]naphthyridines
AU Ojea, Vicente; Quintela, Jose Maria
CS Fac. Cienc., Univ. La Coruna, La Coruna, 15071, Spain
SO Heterocycles (1993), 36(6), 1337-49
CODEN: HTCYAM; ISSN: 0385-5414
DT Journal
LA English
OS CASREACT 119:271107
GI



I



II

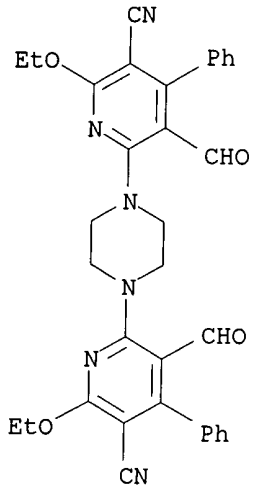


III

AB A series of 3-alkyl-, 3-aryl- and 3-hetarylhexahydro-1H-pyrazino[1,2-a][1,8]naphthyridines [I; R = Me, CH2Ph, CH2CH2C6H4CF3-4, (un)substituted Ph, 2-pyridyl, etc.] were prepd. from 2-(4-substituted 1-piperazinyl)-3-formylpyridines (II) by condensation with malononitrile and subsequent thermal cyclization. Octahydro[1,2-a:4,5-a']di[1,8]naphthyridine (III) was also obtained.

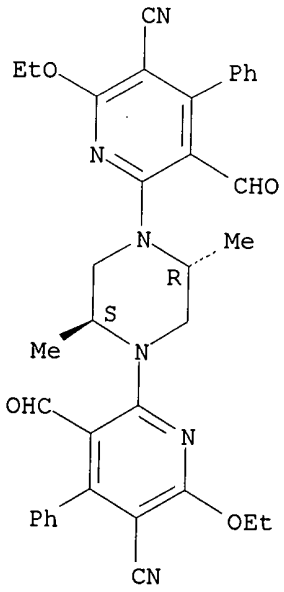
IT **151021-40-8P 151021-41-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with malononitrile)

RN 151021-40-8 CAPLUS
CN 3-Pyridinecarbonitrile, 6,6'-(1,4-piperazinediyl)bis[2-ethoxy-5-formyl-4-phenyl- (9CI) (CA INDEX NAME)



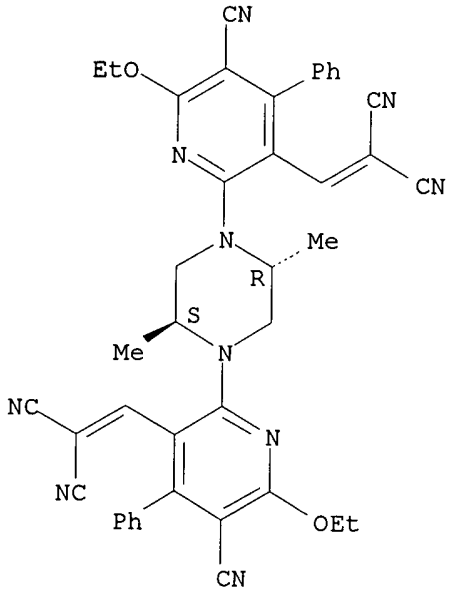
RN 151021-41-9 CAPLUS
CN 3-Pyridinecarbonitrile, 6,6'-(2,5-dimethyl-1,4-piperazinediyl)bis[2-ethoxy-5-formyl-4-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

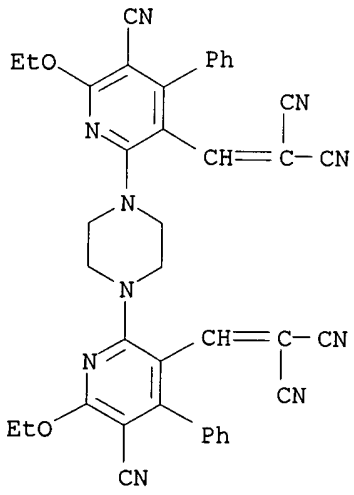


IT **151021-43-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)
RN 151021-43-1 CAPLUS
CN Propanedinitrile, 2,2'-[(2,5-dimethyl-1,4-piperazinediyl)bis[(5-cyano-6-ethoxy-4-phenyl-2,3-pyridinediyl)methylidyne]]bis-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **151021-42-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 151021-42-0 CAPLUS
CN Propanedinitrile, 2,2'-[1,4-piperazinediylbis[(5-cyano-6-ethoxy-4-phenyl-2,3-pyridinediyl)methylidyne]]bis- (9CI) (CA INDEX NAME)



L18 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1993:233206 CAPLUS
DN 118:233206
TI Chiral molecular clefts for dicarboxylic acid complexation
AU Alcazar, Victoria; Moran, Joaquin R.; Diederich, Francois
CS Dep. Chem. Biochem., Univ. California, Los Angeles, CA, 90024-1569, USA
SO Isr. J. Chem. (1992), 32(1), 69-77
CODEN: ISJCAT; ISSN: 0021-2148
DT Journal
LA English
OS CASREACT 118:233206
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

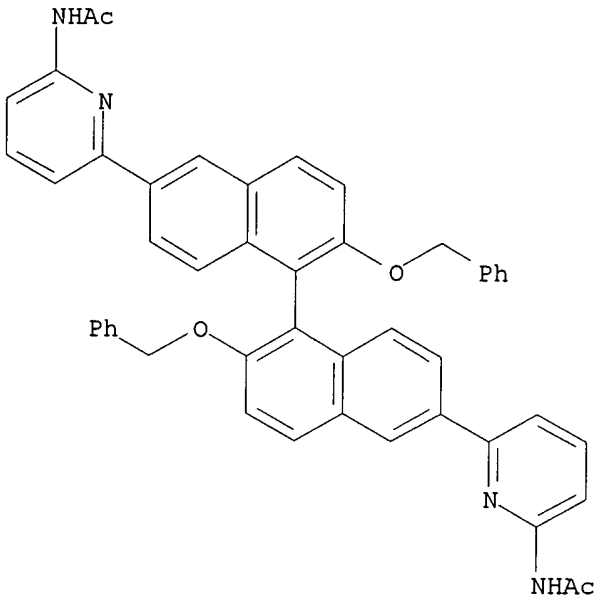
AB Three efficient cleft-type receptors, I-III are prepd. by attachment of 2 amidopyridine units as H-bonding centers to either the 2,2'-positions of 9,9'-spirobifluorene or the 6,6'-positions of 1,1'-binaphthyl spacers. The easy availability of these compds. in short synthetic routes make them attractive complexing agents for aliph. and arom. dicarboxylic acids which undergo bidentate binding in CHCl3. 1H NMR binding studies show that substrates of different size can be accommodated into the clefts and form 1:1 complexes that are predominantly stabilized by multiple host-guest H-bonds. The flexible aliph. substrates diethylmalonic, 2,2-diphenylsuccinic, glutaric, and pimelic acid form complexes with assocn. consts. Ka ranging from 103 to 104 L mol-1. Significantly more stable complexes (Ka > 105 L mol-1) are obtained with the more rigid, preorganized substrate 5-dodecyloxyisophthalic acid.

IT **147580-11-8 147580-12-9 147580-13-0**
147580-14-1 147580-15-2
RL: PRP (Properties)
(formation const. of)

RN 147580-11-8 CAPLUS
CN Propanedioic acid, diethyl-, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

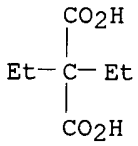
CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4



CM 2

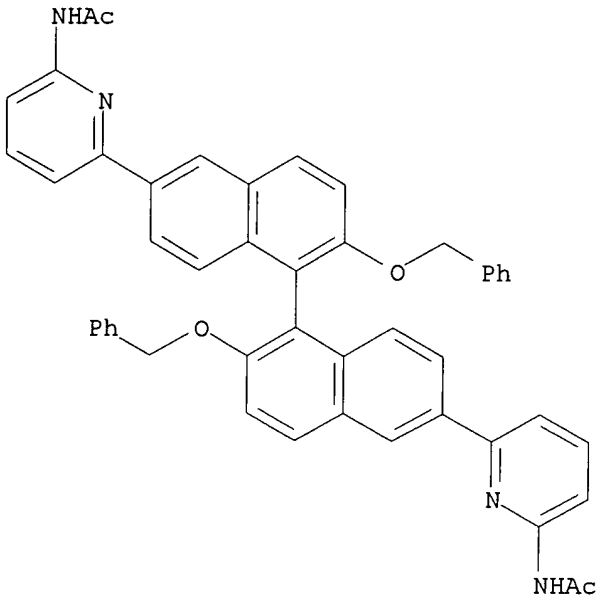
CRN 510-20-3
CMF C7 H12 O4



RN 147580-12-9 CAPLUS
CN Butanedioic acid, 2,2-diphenyl-, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

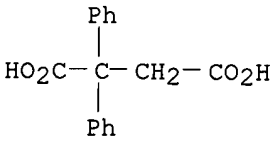
CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4



CM 2

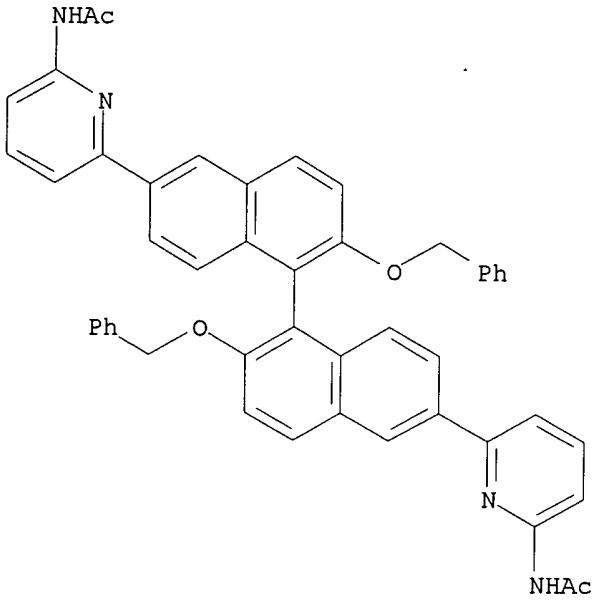
CRN 10186-26-2
CMF C16 H14 O4



RN 147580-13-0 CAPLUS
CN Pentanedioic acid, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4



CM 2

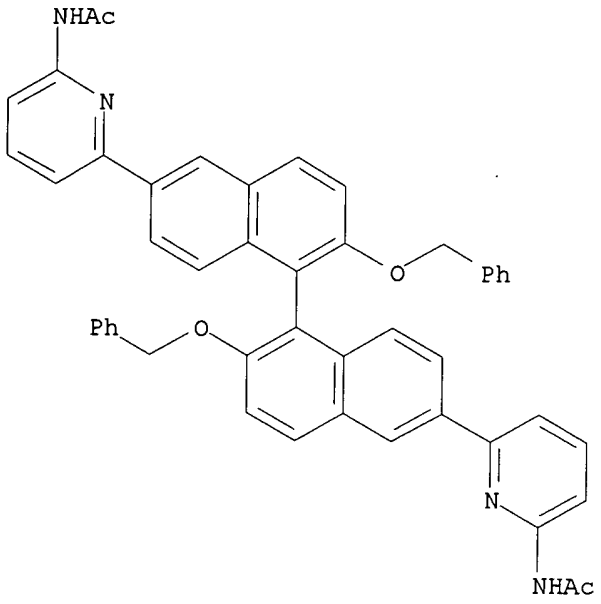
CRN 110-94-1
CMF C5 H8 O4

$HO_2C-(CH_2)_3-CO_2H$

RN 147580-14-1 CAPLUS
CN Heptanedioic acid, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4



CM 2

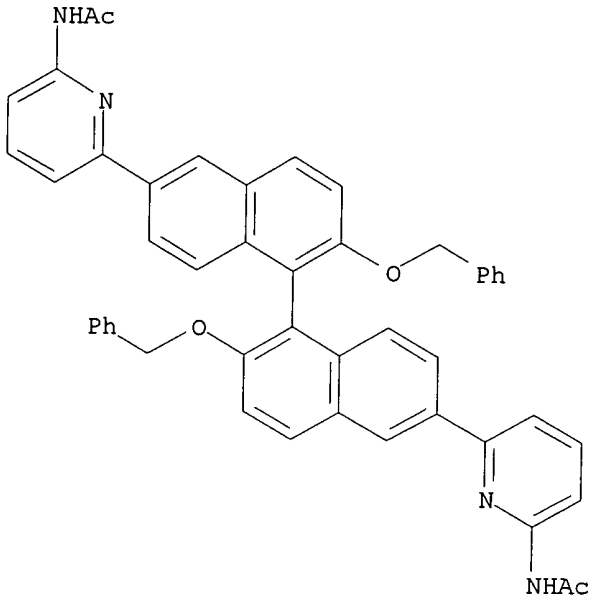
CRN 111-16-0
CMF C7 H12 O4

$HO_2C-(CH_2)_5-CO_2H$

RN 147580-15-2 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-(dodecyloxy)-, compd. with N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis[acetamide] (1:1) (9CI) (CA INDEX NAME)

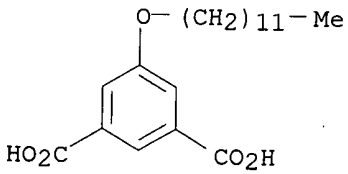
CM 1

CRN 147580-10-7
CMF C48 H38 N4 O4

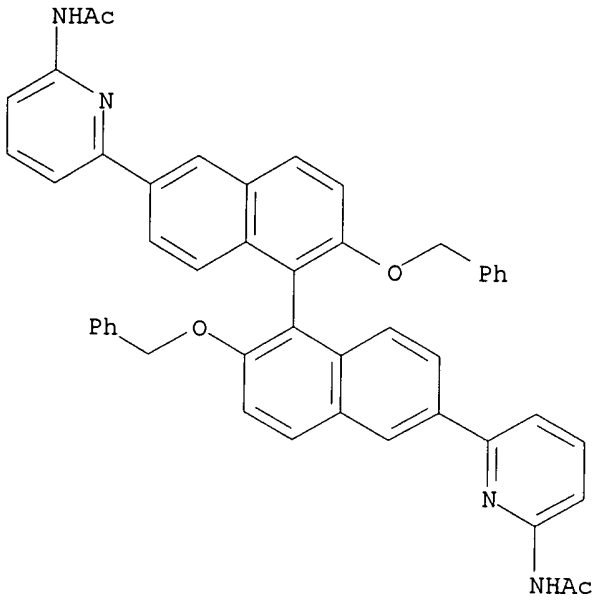


CM 2

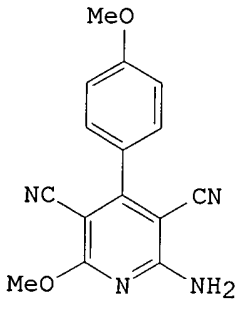
CRN 147580-08-3
CMF C20 H30 O5



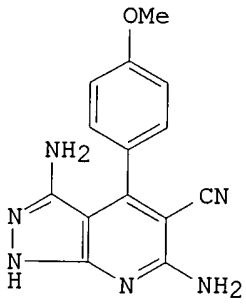
IT **147580-10-7**
RL: PRP (Properties)
(prepn. as racemic mol. cleft receptor and proton NMR of)
RN 147580-10-7 CAPLUS
CN Acetamide, N,N'-[[2,2'-bis(phenylmethoxy)[1,1'-binaphthalene]-6,6'-diyl]di-6,2-pyridinediyl]bis- (9CI) (CA INDEX NAME)


NHAc
N
O
Ph
Ph
O
N
NHAc

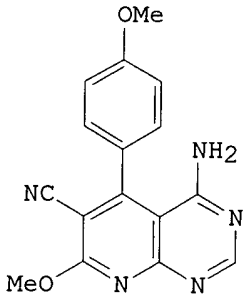
L19 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1991:81740 CAPLUS
DN 114:81740
TI Reactions with 2-amino-3,5-dicyanopyridines
AU Seada, M.; El-Behairy, M. A.; Jahine, H.; Hanafy, F.
CS Fac. Educ., Ain Shams Univ., Cairo, Egypt
SO Orient. J. Chem. (1989), 5(4), 273-80
CODEN: OJCHEG; ISSN: 0970-020X
DT Journal
LA English
OS CASREACT 114:81740
GI



I



II



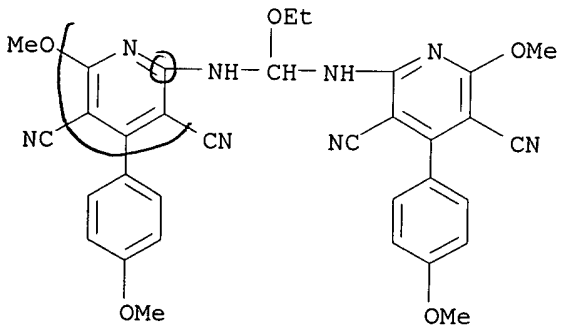
III

AB The prepn. and reactions of aminoanisyldicyanomethoxypyridine I and its derivs., e.g., pyrazolopyridine II, are described. Thus, CH2(CN)2 reacted with 4-MeOC6H4CHO in the presence of MeONa in MeOH to give 60% I. I was boiled with HCONH2 to give 91% pyridopyrimidine III.

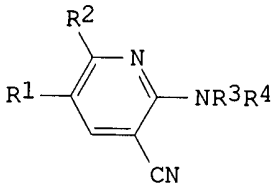
IT **131695-27-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 131695-27-7 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 2,2'-[(ethoxymethylene)diimino]bis[6-methoxy-4-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

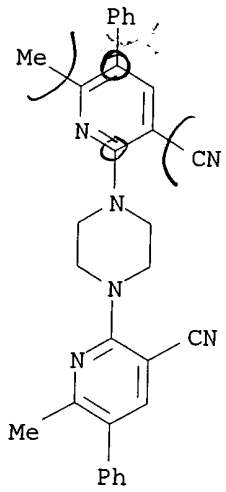


L19 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1990:490939 CAPLUS
DN 113:90939
TI Potential cardiotonic agents. Part 7: Synthesis and cardiovascular properties of 5-(4-pyridinyl)-, 6-methyl-5-(4-pyridinyl)- and 6-methyl-5-phenyl-substituted 3-cyano-2-aminoalkylaminopyridines
AU Hagen, V.; Rumler, Andrea; Klauschenz, E.; Hagen, Angela; Heer, Sabine; Faust, G.; Mitzner, R.
CS Inst. Wirkstofforsch., Akad. Wiss. DDR, Berlin, DDR-1136, Ger. Dem. Rep.
SO Pharmazie (1990), 45(4), 240-1
CODEN: PHARAT; ISSN: 0031-7144
DT Journal
LA German
OS CASREACT 113:90939
GI



I

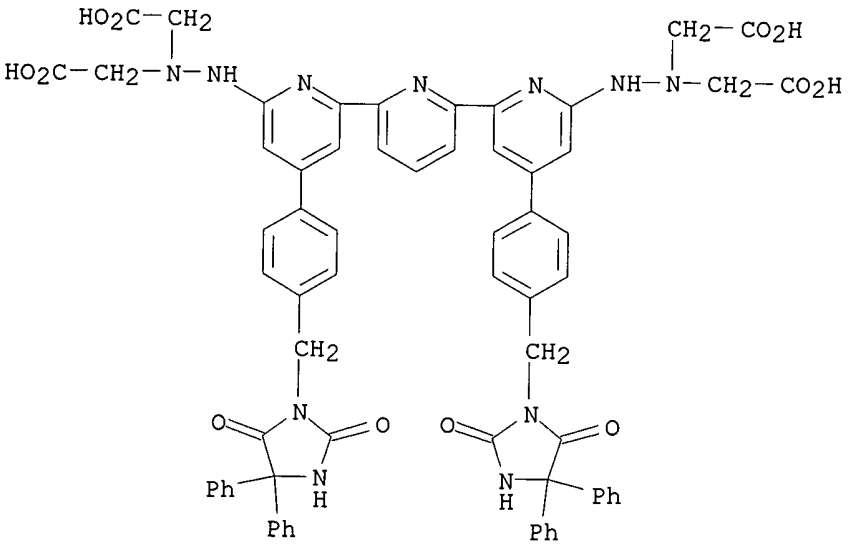
AB Twelve title compds. (I, R1 = 4-pyridinyl, Ph; R2 = H, Me; NR3R4 = aminoalkylamino or substituted piperazine) were prepd. by reaction of 2-chloropyridines with the appropriate amine. Some I had greater pos. inotropic activity than amrinone in isolated guinea pig atria, while heart rate decreased or remained unchanged. In anesthetized dogs, some I dose-dependently increased myocardial contractility and, in addn., decreased blood pressure. Introduction of an Me group at position 6 (R2) did not increase the pos. inotropic activity. The compds. most suitable for further investigation were I [R1 = 4-pyridinyl; R2 = H; NR3R4 = NH(CH2)3NEt2] and I (R1 = 4-pyridinyl; R2 = H; NR3R4 = morpholinopropylamino).
IT **128882-36-0P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and cardiotonic activity of, structure in relation to)
RN 128882-36-0 CAPLUS
CN 3-Pyridinecarbonitrile, 2,2'-(1,4-piperazinediyl)bis[6-methyl-5-phenyl- (9CI) (CA INDEX NAME)


Ph
Me
N
CN
N
N
CN
N
Me
Ph

L19 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1989:530322 CAPLUS
DN 111:130322
TI Europium chelates with polypyridine and phenanthroline derivatives for fluorescent labels for immunoassays
IN Toner, John Luke
PA Eastman Kodak Co., USA
SO Eur. Pat. Appl., 39 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 288256	A2	19881026	EP 1988-303543	19880420
	EP 288256	A3	19910626		
	R: DE, FR, GB				
	US 4837169	A	19890606	US 1987-40385	19870420
	CA 1292710	A1	19911203	CA 1987-542828	19870723
	JP 01045365	A2	19890217	JP 1988-94703	19880419
	JP 2614893	B2	19970528		
	US 4859777	A	19890822	US 1988-285163	19881216
PRAI	US 1987-40385		19870420		
	US 1981-279398		19810701		
	US 1986-825693		19860203		
	US 1987-7024		19870127		

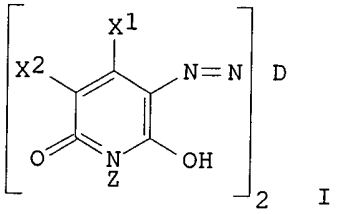
OS MARPAT 111:130322
GI For diagram(s), see printed CA Issue.
AB Stable fluorescent labels comprise Eu3+ and a chelating agent I [R = H, alkyl, alkoxy, alkylthio, alkylamino, (substituted)aryl, aryloxy, heterocycle, enzyme, antigen, antibody; R1 = R except for aryloxy; R2 = COO, OH, carbonyliminodiacetic acid, methyleneiminodiacetic acid, hydrazinylylideneacetic acid, or the esters or salts of the acids; n = 0-4; m = 0 or 1 when n = 0; II, III, and IV are excluded from the structure] which is a triplet sensitizer having triplet energy > Eu3+ and .gtoreq.2 heteroatom-contg. groups which form coordinate complexes with Eu3+ and a 3rd heteroatom-contg. group or heteroatom in or appended to the triplet sensitizer. The chelating agents are polypyridines or phenanthrolines. Labeled physiol. active materials such as vitamins, hormones, receptors, etc., and a fluorescence immunoassay, are described. V 0.60 and VI 0.71 g (prepns. are described) were refluxed with 5 g NH4OAc in MeOH 100 mL for 16 h. The soln. was cooled and filtered, and the solid was triturated with hot HCl, filtered, washed with MeOH followed by Et2O, and dried, to yield VII 0.40 g (53%). A 10-6M soln. of VII and EuCl3.6H2O was highly luminescent under long wavelength UV.
IT **122637-34-7D**, salts, esters, biomol. conjugates
RL: ANST (Analytical study)
(chelating agent, for europium, fluorescence immunoassay in relation to)
RN 122637-34-7 CAPLUS
CN Acetic acid, 2,2',2'',2'''-[[4,4''-bis[4-[(2,5-dioxo-4,4-diphenyl-1-imidazolidinyl)methyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]di-2-hydrazinyl-1-ylidene]tetrakis- (9CI) (CA INDEX NAME)



L19 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1989:85465 CAPLUS
DN 110:85465
TI Electrophotographic photoreceptors with bisazo compound-containing charge-generation layers
IN Numa, Tatsuya; Ito, Yuji; Akitsuma, Masatomi; Fujimoto, Masaki
PA Nippon Kayaku Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63193153	A2	19880810	JP 1987-24492	19870206

GI

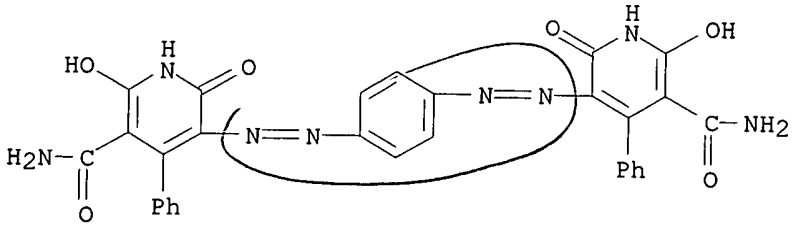


I

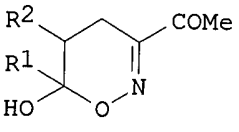
AB The title photoreceptors contain bisazo compds. of the formula I [D = (un)substituted arylene, divalent heterocyclic group; X1 = (un)substituted alkyl, phenyl; X2 = H, CN, CONH2, CO2R, COR; R = Me, Et; Z = H, alkenyl, cycloalkyl, (un)substituted aryl]. Thus, a dichloroethane soln. of I (D = p-C6H4; X1 = Me; X2 = CN; Z = Bu) and Vylon 200 was applied on an Al-evapd. polyester film to give a charge-generation layer, which was coated with a hydrazone-type charge-transport layer to give an electrophotog. photoreceptor having excellent charging characteristics.

IT **118830-35-6**
RL: USES (Uses)
(electrophotog. photoreceptor with charge-generation layer from, with good charging characteristics)

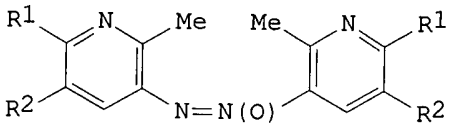
RN 118830-35-6 CAPLUS
CN 3-Pyridinecarboxamide, 5,5'-[1,4-phenylenebis(azo)]bis[1,2-dihydro-6-hydroxy-2-oxo-4-phenyl- (9CI) (CA INDEX NAME)



DN9 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1988:167261 CAPLUS
DN 108:167261
TI A synthesis of 3-azoxypyridines by cyclization of hydroxyimino-substituted diketones with ammonia
AU Gilchrist, Thomas L.; Moxey, John R.; Yagoub, Ahmed K.
CS Robert Robinson Lab., Univ. Liverpool, Liverpool, L69 3BX, UK
SO J. Chem. Res., Synop. (1987), (11), 357
CODEN: JRPSDC; ISSN: 0308-2342
DT Journal
LA English
OS CASREACT 108:167261
GI



II

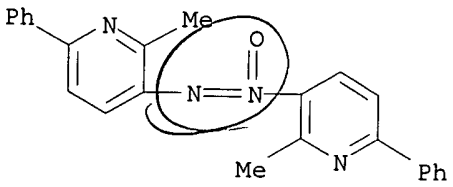


III

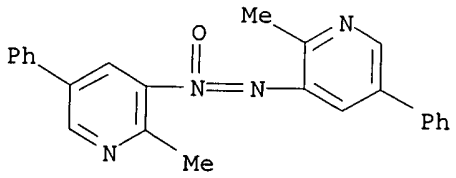
AB Cycloaddn. of nitrosobutenone CH2:C(COMe)N:O with alkenes R2CH:CR1X [R1R2 = (CH2)n, n = 3, 4, 5; R1 = Ph, Me3C, R2 = H; R1 = H, R2 = Ph; R1 = R2 = H; X = morpholino, pyrrolidino, EtO, Me3SiO] and in situ hydrolysis afforded products which are formulated as open-chain oximes R1COCHR2CH2C(:NOH)COMe(I) and/or hydroxyoxazines II. Treatment of I/II with aq. NH3, in an app. open to the air, gave azoxypyridines III. A mechanism involving oxidn. of intermediate hydroxyaminopyridines is proposed.

IT **113737-96-5P 113737-98-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

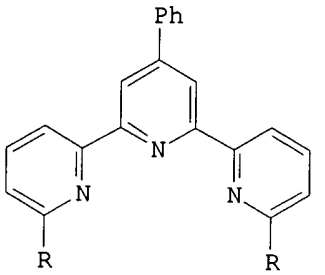
RN 113737-96-5 CAPLUS
CN Pyridine, 3,3'-azoxybis[2-methyl-6-phenyl- (9CI) (CA INDEX NAME)



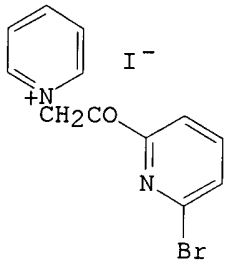
RN 113737-98-7 CAPLUS
CN Pyridine, 3,3'-azoxybis[2-methyl-5-phenyl- (9CI) (CA INDEX NAME)



L19 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1983:107123 CAPLUS
DN 98:107123
TI The preparation and coordination chemistry of 2,2':6',2"-terpyridine macrocycles - 1
AU Constable, Edwin C.; Lewis, Jack
CS Chem. Lab., Univ. Cambridge, Cambridge, CB2 1EW, UK
SO Polyhedron (1982), 1(3), 303-6
CODEN: PLYHDE; ISSN: 0277-5387
DT Journal
LA English
GI



I

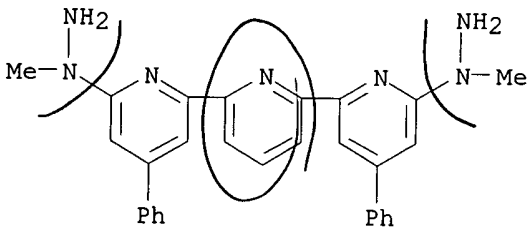


II

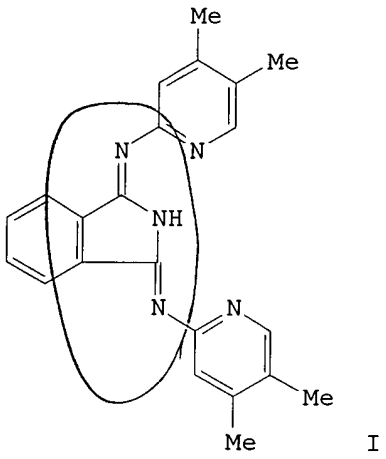
AB Derivs. of 2,2':6',2''-terpyridine were prepd. with the intention of forming macrocycles incorporating the 2,2':6',2''-terpyridyl moiety. Bis(methylhydrazino)phenylterpyridine I (R = MeNNH2) and a no. of metal complexes of this novel pentadentate ligand were prepd. Thus, Ortoleva-King reaction of 2-acetyl-6-bromopyridine with iodine and pyridine gave pyridinium iodide II. Cyclocondensation of II and 2-bromo-6-cinnamoylpyridine in refluxing HOAc contg. NH4OAc gave I (R = Br). Reaction of the latter with MeNHNH2 gave I (R = MeNNH2) which formed colored complexes with Cr, Mn, Fe, Co, and Ni.

IT **84488-15-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 84488-15-3 CAPLUS
CN 2,2':6',2''-Terpyridine, 6,6''-bis(1-methylhydrazino)-4,4''-diphenyl- (9CI) (CA INDEX NAME)



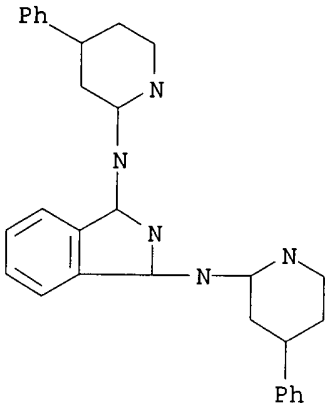
L19 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1982:181110 CAPLUS
DN 96:181110
TI Metal-chelating 1,3-bis(2-pyridylimino)isoindolines
AU Siegl, Walter O.
CS Ford Motor Co., Dearborn, MI, 48121, USA
SO J. Heterocycl. Chem. (1981), 18(8), 1613-18
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
GI



I

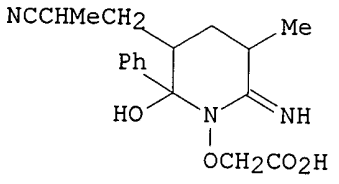
AB A variety of novel chelating 1,3-bis(2-pyridylimino)isoindoline ligands, e.g. I, were prepd. by reaction of phthalonitriles or 1,3-diiminoisoindolines with 2-aminopyridines and characterized including ligands substituted on both the pyridyl and isoindoline ring systems. Noteworthy are the 1st isoindoline ligands with soly. in aq. media. A convenient prepn. of 4-alkoxyphthalonitriles is reported; these compds. are readily obtained from 4-nitrophthalonitrile and are suitable starting materials for alkoxy-substituted ligands.

IT **81560-17-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 81560-17-0 CAPLUS
CN 1H-Isoindol-3-amine, N-(4-phenyl-2-pyridinyl)-1-[(4-phenyl-2-pyridinyl)imino]- (9CI) (CA INDEX NAME)

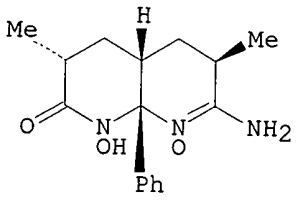


*** FRAGMENT DIAGRAM IS INCOMPLETE ***

L19 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1981:460908 CAPLUS
DN 95:60908
TI Iminyls. Part 8. Intramolecular addition to nitrile groups
AU Forrester, Alexander R.; Irikawa, Hajima; Thomson, Ronald H.; Woo, Soo On; King, Trevor J.
CS Chem. Dep., Univ. Aberdeen, Aberdeen, AB9 2UE, Scot.
SO J. Chem. Soc., Perkin Trans. 1 (1981), (6), 1712-20
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
GI



I

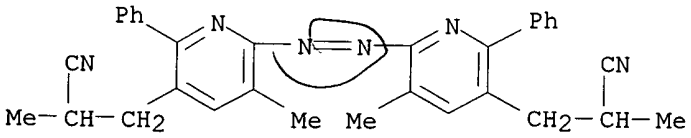


II

AB Evidence for the radical polymn. of nitrile groups in polyacrylonitrile was sought using model compds. No cycloaddn. of iminyls to nitrile groups was obsd. but nucleophilic addn. occurred readily. E.g., 1,8-(NC)2C10H6 reacted with NH2OH to give naphthalimide dioxime and with BuLi to give azaphenalene derivs. but adamantyl radicals did not attack the nitrile functions. PhCOCH(CH2CHMeCN)2 and NH2OH (NaOAc, aq. EtOH, reflux, 2 h) gave the piperidine I (4.3%) and 2 decahydro-1,8-naphthyridine derivs. rather than the oxime. Reaction of I with BrCH2CO2H gave an oxyacetic acid which on persulfate oxidn. gave a cis-trans mixt. of azopyridines. The structure of one of the decahydronaphthyridines (II) was detd. by x-ray anal.

IT **78414-87-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

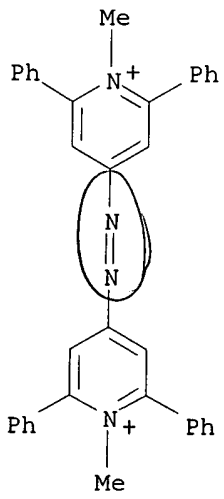
RN 78414-87-6 CAPLUS
CN 3-Pyridinepropanenitrile, 6,6'-azobis[.alpha.,5-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



L19 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1975:4099 CAPLUS
DN 82:4099
TI Two-step redox systems. XIV. Phenylogs and diazavinylogs of bipyrylium, bithiopyrylium, and bipyridylium salts
AU Huenig, Siegfried; Ruider, Guenther
CS Inst. Org. Chem., Univ. Wuerzburg, Wuerzburg, Ger.
SO Justus Liebigs Ann. Chem. (1974), (9), 1415-22
CODEN: JLACBF
DT Journal
LA German
GI For diagram(s), see printed CA Issue.
AB The pyrylium salt I (X = O+, Z = p-phenylene, X- = BF4-), prepd. according to K. Dimroth and Ch. Reichardt (1969), was converted by treatment with NH3 and subsequent methylation (Me3O+ BF4-) into .apprx.100% I (X+ = N+Me), whereas the common conversion into X+ = S+ by Na2S failed. Reaction of the methylthio compds. II (X+ = N+Me or S+) with N2H4 in EtOH and DMF gave III (X+ = N+Me and S+, resp.), whereas II (X+ = O+) reacted likewise only in the presence of AcONa buffer and anhyd. EtOH to give only 17% III (X+ = O+).
IT **54787-29-0P 54787-30-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54787-29-0 CAPLUS
CN Pyridinium, 4,4'-azobis[1-methyl-2,6-diphenyl-, bis[tetrafluoroborate(1-)] (9CI) (CA INDEX NAME)

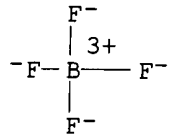
CM 1

CRN 54787-28-9
CMF C36 H30 N4



CM 2

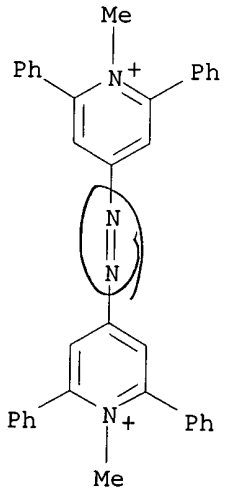
CRN 14874-70-5
CMF B F4
CCI CCS



RN 54787-30-3 CAPLUS
CN Pyridinium, 4,4'-azobis[1-methyl-2,6-diphenyl-, diperchlorate (9CI) (CA INDEX NAME)

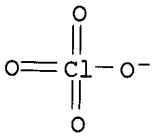
CM 1

CRN 54787-28-9
CMF C36 H30 N4

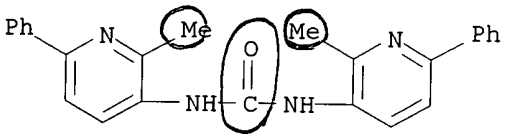


CM 2

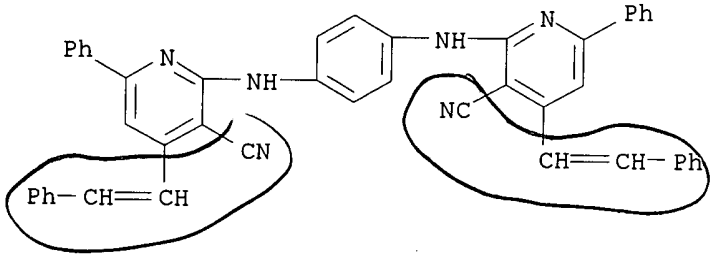
CRN 14797-73-0
CMF Cl O4



L19 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1974:108440 CAPLUS
DN 80:108440
TI Pyrazolopyridines. III. Preparation and reactions of pyrazolo[4,3-b]pyridines
AU Foster, Hylton E.; Hurst, Jim
CS Sch. Pharm., Sunderland Polytech., Sunderland, Engl.
SO J. Chem. Soc., Perkin Trans. 1 (1973), (23), 2901-7
CODEN: JCPRB4
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Nitrosation of 3-acetamido-2-methylpyridines with NOCl followed by refluxing in C6H6 gave 1-acetyl-1H-pyrazolo[4,3-b]pyridines which were deacetylated by HCl. E.g. 3-acetamido-2-methyl-6-phenylpyridine gave 86% pyrazolopyridine (I; R = Ph, R1 = Ac) which gave 85% I (R = Ph, R1 = H). 1- and 2-Acyl derivs. of I (R = Me, R1 = H) (II) were prepd. Bromination and nitration of II gave the corresponding 3-bromo and 3-nitro derivs. Similarly 1H-pyrazolo[4,3-b]pyridin-5(4H)-one gave 3-bromo, 3,6-dibromo, and 3,6-dinitro derivs.
IT **52090-59-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 52090-59-2 CAPLUS
CN Urea, N,N'-bis(2-methyl-6-phenyl-3-pyridinyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1974:82586 CAPLUS
DN 80:82586
TI Some reactions with 1,2-dihydro-2-oxo-6-phenyl-4-styrylnicotinonitrile
AU Sammour, A.; Raouf, A.; Elkasaby, M.; Hassan, M.
CS Fac. Sci., Ain Shams Univ., Cairo, UAR
SO J. Prakt. Chem. (1973), 315(6), 1175-82
CODEN: JPCEAO
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The title nicotinonitrile I (R = OH) obtained from Ph(CH:CH)2COPh and NCCH2CO2Et reacted with R1Y (Y = Cl, Br, or iodine), with POCl3, and with R2MgY to give the ethers I (R = OR1; R1 = Me, Et, PhCH2, CH2CH2OH, or CH2CO2Et) (II), the chloride I (R = Cl) (III), and the ketones IV (R = OH; R2 = Me, cyclohexyl, 1-C10H7, Ph, or 2-MeOC6H4), resp. Amination of III gave the amines I (R = NHR3, R3 = Bu, PhCH2, 4-MeOC6H4, PhNH, or HO2CCH2). II (R1 = Me or Et) reacted with R2MgY to give IV (R = OMe or OEt; R2 = Me or Ph). Reaction of IV [R2 = Me (V) or Ph] with NH2OH.HCl in AcOH gave the isoxazolopyridines VI. Reaction of V with R4CHO (Claisen-Schmidt condensation) gave the cinnamoyl derivs. IV [R = OH, R2 = CH:CHR4; R4 = Ph, 4-ClC6H4, or 3,4-(OCH2O)C6H3], the 2 latter of which reacted with PhNHNH2 and NH2OH.HCl to give the pyrazolines VII and the isoxazolines VIII, resp.
IT **51328-87-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 51328-87-1 CAPLUS
CN 3-Pyridinecarbonitrile, 2,2'-(1,4-phenylenediimino)bis[6-phenyl-4-(2-phenylethenyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2002 ACS
AN 1973:505050 CAPLUS
DN 79:105050
TI Reaction of 6-amino-2H-thiopyran-2-thiones with amines
AU Gewald, K.; Buchwalder, M.; Peukert, M.
CS Sekt. Chem., Tech. Univ. Dresden, Dresden, Ger.
SO J. Prakt. Chem. (1973), 315(4), 679-89
CODEN: JPCEAO
DT Journal
LA German
GI For diagram(s), see printed CA Issue.
AB Reaction of the thiopyranthiones I, R = CN or CO2Et, R1 = Ph, R2 = H, or R1R2 = (CH2)4 or of it theirs S-methyl derivs. (II, X = iodide or MeSO4) with R3NH2 (R3 = OH, NH2, Me, CH2Ph, or NHPh) yielded the pyridinethiones III. III (R3 = NH2) were deaminated and then rearranged in HCO2H into the corresponding 2-amino-6-thiocyanatopyridines. Aniline reacted with II but not with I to give the imino derivs. IV, which were rearranged, by treating with bases, into III. Reaction of I with R4R5NH (NR4R5 = morpholino or piperidino) gave the thiones V.
IT **50706-82-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 50706-82-6 CAPLUS
CN 3-Pyridinecarboxylic acid, 2,2'-dithiobis[6-(4-morpholinyl)-4-phenyl-, diethyl ester (9CI) (CA INDEX NAME)